

- Quartz Asteria.** called by Dana "Quartz Asteria," and by Tiffany "Star Quartz," from the peculiarity possessed by the cut specimen of showing a star of six rays. When the cut stone is turned, these six rays have the property of merging into one somewhat resembling a cat's eye. In the same quartz vein from which these specimens are obtained are also found specimens of a bluish amazon stone, while from other portions the variety known as the hair stone is obtained, a greenish transparent quartz penetrated by hair-like filaments of actinolite.
- Hair stone.**
- Agates.** Of agates, while it may be said that these occur in the district, the specimens obtained are generally of inferior quality, not comparing with those from Lake Superior or Nova Scotia.
- Jasper.** Jasper occurs in veins or beds in the township of Hull, the principal workable deposit being a vein from one to two feet thick of red and yellow and red mottled shades, which when polished presents a very handsome appearance. Blocks of large size can be obtained from this locality. The porphyry of Grenville and of Chatham has been described in the earlier reports of the survey. Of these, it is remarked in the *Geology of Canada*, 1863, p. 832, that on the fourth lot of the sixth range of Grenville there is "a great mass of this porphyry which varies in color from leek-green to blackish-green, and is marked with red, brown and black spots. It is very compact and has a conchoidal fracture. This green porphyry is here about fifty feet in breadth, and to the northward it passes into a chocolate-brown variety, which is still more abundant. Specimens of several varieties of these porphyries have been cut, all of which receive a fine polish, and are very beautiful. They may be obtained in large blocks, and do not appear to be much harder than the granites of Aberdeen and of other regions which are now cut and polished on a large scale, while they would far surpass the latter for beauty."
- Garnets.** Garnets are found in the Laurentian rocks in considerable quantity, but rarely of a quality suitable for cutting for gems. Chrome garnet is found in the eastern townships, but not in crystals or size sufficiently large for cutting. Crystals of garnet have also been reported from the township of Wakefield, and this locality also affords small crystals of a lemon or brownish-yellow variety, which when polished are very transparent and brilliant.
- Tourmaline.** Tourmaline occurs generally in long crystals imbedded in the vein matter of the rocks of Wakefield, and is generally not of a quality fitted for gems, but occasionally pieces are found sufficiently clear for this purpose.
- Peristerite.** Several varieties of felspar are known. A mixture of albite and quartz, called peristerite, occurs at Villeneuve, in which the felspar has a beautiful play of color. A bluish variety of the albite is said to

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