Very fine clove-brown quadratic prisms with pyramids from one-sixth to two inches in length and one-tenth to one-half inch in breadth have formerly been found imbedded in the tale of Chestnut Hill, near Easton. Associated with allanite in small crystals of the usual form, rarely half an inch in length and partly altered on all the planes, except the zirconoid, the color of the latter being brownish-black, while the others are gray, it is found in Lower Saucon Township, Northampton County, five miles east of Bethlehem; and under similar circumstances, three-fourths of a mile north (?) of Bethlehem.

It is found in minute slender crystals in the South Mountains one mile east of Hellertown.

Eyerman, in his Mineralogy of Pennsylvania, Part II, also describes zircons from Chestnut Hill as follows:

Without doubt, the most interesting, as well as the largest zircons, found in the State, are those which were discovered many years ago, in the biotite at Easton; approximately, two dozen isolated crystals were found. Eight in my possession, are elongated prisms 410.1 with p(111.1); some double. Color: clove-brown; the termination on the largest crystal is very black-brown, the prism face 410 clove-brown, the two being sharply separated by the angle line. The lengths are

\[
\begin{align*}
\frac{m-p}{m} &= 15 \text{ mm} \quad m = 7 \text{ mm} \quad m(p)2 = 15 \text{ mm} \\
\frac{m}{m} &= 5 \text{ mm} \quad m = 5 \text{ mm} \quad m(p)2 = 17 \text{ mm}
\end{align*}
\]

George W. Gehman has found beautifully formed crystals of zircon up to 1 1/2 inches long in the Delaware River serpentine quarry.

Recently B. F. Buie has found grains of zircon in the residues of the dolomitic limestones of the Allentown formation east of Bethlehem. The grains range from colorless to pale yellowish brown or pale rose pink. Some of them contain inclusions of an undetermined mineral.

Wherry\textsuperscript{58} in his microscopic studies of gneisses of the Bethlehem region has found zircon in several specimens.

**TOPAZ** \((\text{Al}(\text{F},\text{OH})_4)\text{AlSiO}_4\)**

Eyerman, in his Mineralogy of Pennsylvania, Part II, describes small cream yellow crystals of topaz from Chestnut Hill.

B. F. Buie has found colorless grains of topaz in the residues of the dolomitic limestones of the Allentown formation east of Bethlehem.

**SILLIMANITE** \((\text{Al}_5\text{Si}_3\text{O}_10)\)**

Wherry\textsuperscript{58} has reported abundant sillimanite in quartz-mica schists of Northampton County. It "occurs in long slender prisms, mostly curved or bent slightly and in subparallel arrangement." In one locality just across the line in Lehigh County, one mile west of Seidersville, it constitutes 35.1 percent of the rock. He also describes the presence of sillimanite in quartz-mica schists occurring two miles southeast of Freemansburg, slightly more than one mile south of Island Park and about 2 1/2 miles east of Hellertown.


\textsuperscript{59} Idem., vol. 29, pp. 375-392.