The crystals of axinite... were found in the heap of debris surrounding an abandoned pit, which had been sunk in exploring for ore on a farm in Northampton County, Pennsylvania, about three miles north of Bethlehem.

The locality was discovered by Professor P. Prime, Jr., of the Second Geological Survey of Pennsylvania, and was brought to him by the notice of the late Professor W. T. Roeper, who determined the mineral to be axinite, and who secured a number of specimens of it. The determination of the mineral as axinite was made also, independently, by Dr. F. A. Genth, the mineralogist of the Survey...

The crystals occur in a rock containing crystalline hornblende, apparently mixed intimately with axinite, and traversed by numerous narrow veins of axinite. In some of these veins the axinite is mixed with asbestos. Probably owing to this association the axinite itself sometimes assumes a fibrous structure. Wherever in the veins a free surface is exposed, it is thickly covered with implanted crystals of axinite; irregularly crowded together. Some of the crystals are colorless, others and the crystalline variety which fills the veins have a pale brown color. The color in some cases is chiefly superficial from the presence of a thin, brown incrustation which occurs sometimes in dendritic forms. The luster of the crystals varies from dull to highly brilliant.

The crystals have the usual sharp, axe-like shape, which originally suggested to Hauy the name of the mineral...

The crystals are in general small, varying from a fraction of a millimeter to several centimeters in length.

Several specimens of the material in the mineralogical collections of Lehigh University were originally in Professor Roeper's private collection.

So far as known no other specimens have ever been found in that locality. The rock is a phase of the pre-Cambrian gneiss that constitutes the Camels Hump.

CALAMINE (H₂Zn₃SiO₇)

The only known occurrence of calamine in Northampton County is that reported by John Eyerman, in his Mineralogy of Pennsylvania, Part I. His statement follows: "Last summer (1883) I obtained some good crystals (of calamine) of a dark brown color on limonite and coating the interior of geodes, from an abandoned mine shaft on the land of S. von Steuben, one-quarter mile W. of Dryland Station, Northampton Co." The locality probably is close to the Steuben station of the Lehigh & New England R. R.

TOURMALINE (complex Al,Mg,Fe,B, etc. silicate)

Tourmaline has been found in quartz or pegmatite veins cutting the gneisses of Northampton County. Some of the pegmatites of Chestnut Hill contain black crystals over half an inch long.

Eyerman* gives the following description:

Generally occurs massive, imbedded in quartz, above the devil's oven, Bushkill Creek, west of Easton. Good crystals up to 60 millimeters showing a o w planes are occasionally found, and an analysis of one of these crystals is appended. Some brilliant black striated crystals 40 millimeters long have been found at Marble Hill (continuation of Chestnut Hill across the Delaware River in New Jersey), imbedded in orthoclase.