HARDYSTON FORMATION

Hardyston surely comes very close to Coffeetown. The belt is at least nine miles long.

At Spring Valley the evidence for Hardyston is rather poor. The chief reason for extending the Hardyston to the county line is a large outcrop of that rock about one-quarter mile east of Spring Valley. The outcrop is just west of a tributary of Saucon Creek. The rock is a crushed and fractured arkosic quartzite, having strong local resemblance to gneiss. Fracturing and jointing obscure the true attitude of the beds. Further work may clear up this difficulty. Just north of the outcrop, still on the west side of the creek, there are numerous large slabs of a grayish-buff arkosic rock, carrying some pebbles of quartz. This rock is not like that of the outcrop, but it seems to correspond to some of the arkosic Hardyston elsewhere in the county. There are many springs and much swampy ground up the hill to the east. The evidence for Hardyston is almost nil eastward on the spur at Saucona. Abundant glacial debris and Triassic float may mask the Hardyston. One or two pieces of coarse jasper may indicate its presence.

Down the slope east of Saucona there is an abundance of jasper and chert. This float, in pieces up to a foot and a half in one dimension, is present all along the valley southward towards Leithsville. The northern boundary, or the contact with the limestone, is not definite, but on the basis of float it is placed as crossing the road six-tenths mile east of the crossroads at Bingen. The contact runs northeast from this point.

It must be admitted that the evidence for Hardyston on the north side of the hill near Saucona and for a considerable distance west, north and northeast of Leithsville is very scanty. Blocks of jasper, chert and arkosic sandstones occur but are not sufficiently numerous to satisfy the writer in the mapping which he proposes. It is probably the simplest way of mapping an area where much Triassic float has covered the surface.

Where the Bucks County line crosses a road junction in the center of the valley about a mile and a half east of Leithsville there are great chunks of jasper and quartzite. Some of the jasper resembles that at Vera Cruz, with drusy quartz crystals encrusting it. One may find many pieces of jasper westward along the road and along the creek.

Near the Hellertown Water Works southeast of Hellertown in the valley of Poke Valley Run, there is some quartzite that is a bit different than much of the Hardyston found elsewhere in the county. It is a brittle gray quartzite with pebbles up to three-eighths of an inch in diameter. These pebbles are clear bluish quartz, very solidly