with the clay, change their course abruptly as if from a sliding of the clay on itself. The clay and ore dip at this mine 28° S.S.E. The ore commences about ten feet from the surface. The mine is about 25 feet deep."

This pit, several hundred feet long, completely flooded, and the banks partly overgrown, is on the property of the Alburtis Rod and Gun Club. Yellow clay, lump ore, siliceous material, and Hardyston sandstone occur here. Some of the siliceous material has a distinct jaspery appearance on the surface. Quartz is present in small amounts, and there is considerable chalcedony and flint. Several dumps at the southwest end of the pit are covered by trees and brush. There is considerable sericitic material in a field just north of the pit.

86. Thomas Iron Company’s mine.

“This lies alongside of the pit just mentioned (85) as leased by the Bethlehem Iron Company. The same remark applies to this as to the previous ones that they make a very fine show of ore, the seams appearing to be regular and in great numbers. The quantity of ore is very large and a shaft sunk 75 feet from the surface in the bottom of this excavation still showed ore.”

“Limonite, hard, compact, and of somewhat slaty structure.”

This is a large but not very deep pit on the property of the Alburtis Rod and Gun Club. The sides and part of the bottom are covered by trees and brush. Exposed sections of the banks show yellow clay, sericitic and siliceous material, some ore, and Hardyston sandstone.

88. John Sharp’s mine.

“This mine has not been worked for a long time, and it was impossible to see anything.”

This large mine hole is filled with water, and the sides are overgrown. On the banks are yellow clay, lump ore, siliceous material, chalcedony, flint, some quartz containing limonitic material, and Hardyston sandstone.

90. Kiefer’s mine.

“Abandoned. This mine was formerly worked by Mr. James Lanigan, but when visited it was impossible to see anything, as the pit had been abandoned for some time.”

This pit is surrounded by trees and brush and besides a few fragments of ore and some siliceous material, there is not much to be seen.

91. Hensinger and Saul’s mine.

“Leased by the Allentown Iron Company. This mine has two openings, but not so extensively developed as **(84, 85, 86). The position of the ore is the same as that already described, and it appears to be of as good quality.”

This pit is completely surrounded by and filled in with trees and brush.

92. Mickley’s mine.

“Leased by the Thomas Iron Company. Similar to those just described.”

This pit is completely surrounded by and filled in with trees and brush.