spects the same types of rocks and iron ores occur here that in Virginia and other localities in the Appalachian province have yielded commercial manganese ore.

**LEAD**

As mentioned in the chapter on Mineralogy, lead minerals have not been noted in Lehigh County although galena in small grains might be expected to occur sporadically in the quartz veins of the Tuscarora sandstones and conglomerates.

Notwithstanding the improbability of ever finding other than traces of lead minerals in Lehigh County the Engineering the Mining Journal of Aug. 2, 1884 contained the following item copied from the Eastern Express.

William Schwenck of Mount Carmel and Jeremiah Savidge of Sunbury, have organized a company with a capital of $25,000 to mine "lead ore" on a tract of land six miles from Allentown. The ore will be shipped from Allentown to Sunbury for smelting. The mining, freightage, etc., will cost $20 a ton. The ore assays $85 per ton.

The exact locality is not known. No further reference to this item has been found.

**COPPER**

No copper ore has been discovered in Lehigh County. A few copper minerals have been found as described in the chapter on Mineralogy. Some prospecting for copper was done near Powder Valley many years ago but no record of results has been obtained.

**GOLD**

Gold is discussed in this report merely to call attention to its absence in this region in profitable quantities and to warn credulous persons to avoid the expenditure of time and money in searching for it. Reports are current that gold has been found in many places in the southern half of the county, and considerable money has been spent in sinking shafts, mostly in the gneiss. It seems that in some places small particles of pyrite or chalcopyrite in the rocks have been mistaken for gold, and that in other places operators of the divining rod have been the means of exciting false hopes of hidden wealth. Some unscrupulous or incompetent assayers have reported high gold assays in rocks that were shown later to be absolutely barren.

Two shafts, 150 and 180 feet in depth, were sunk in the Triassic conglomerate about 1 1/2 miles east of Limeport in search of gold. It was reported that a vein of free-milling gold ore was found which contained about $30 in gold and $15 in silver to the ton but that the vein was soon exhausted. These statements seem to be extremely questionable and can not be verified. The deposit was later worked for a time under lease by four men, who installed a sluicing system, but the project was a failure. When visited some time after operation had ceased the only metallic substances observed in the rock on the dump were a few small particles of pyrite and chalcopyrite in the cementing material of the conglomerate.