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Volume Title: The Mining Industries, 1899-1939: A Study of Output, Employment, and Productivity

Volume Author/Editor: Harold Barger and Sam H. Schurr

Volume Publisher: UMI

Volume ISBN: 0-87014-042-6

Volume URL: <http://www.nber.org/books/barg44-1>

Publication Date: 1944

Chapter Title: Part Two - Technological Change

Chapter Author: Harold Barger, Sam H. Schurr

Chapter URL: <http://www.nber.org/chapters/c6319>

Chapter pages in book: (p. 95)

## Part Two

# Technological Change

“In order to mine the ore we must gain access to it, then we must break it down without mixing it with waste rock unnecessarily, and finally we must transport the valuable mineralized material to the surface. . . . Everywhere and for all time, the essence of mining is the same; change occurs only in the way of doing these simple, necessary things; and the particular way of doing them is determined by what happens to be the state of knowledge and the physical means available at a given time and place.” C. E. JULIHN