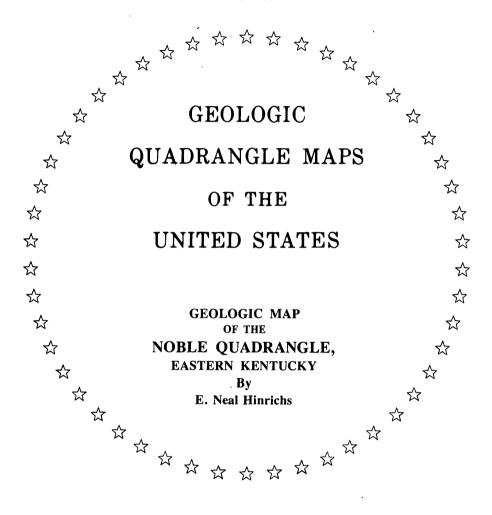
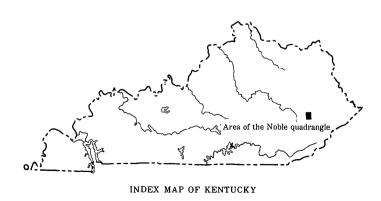
## DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE COMMONWEALTH OF KENTUCKY UNIVERSITY OF KENTUCKY KENTUCKY GEOLOGICAL SURVEY WALLACE W. HAGAN, DIRECTOR AND STATE GEOLOGIST





PUBLISHED BY THE U.S. GEOLOGICAL SURVEY RESTON, VIRGINIA 22092