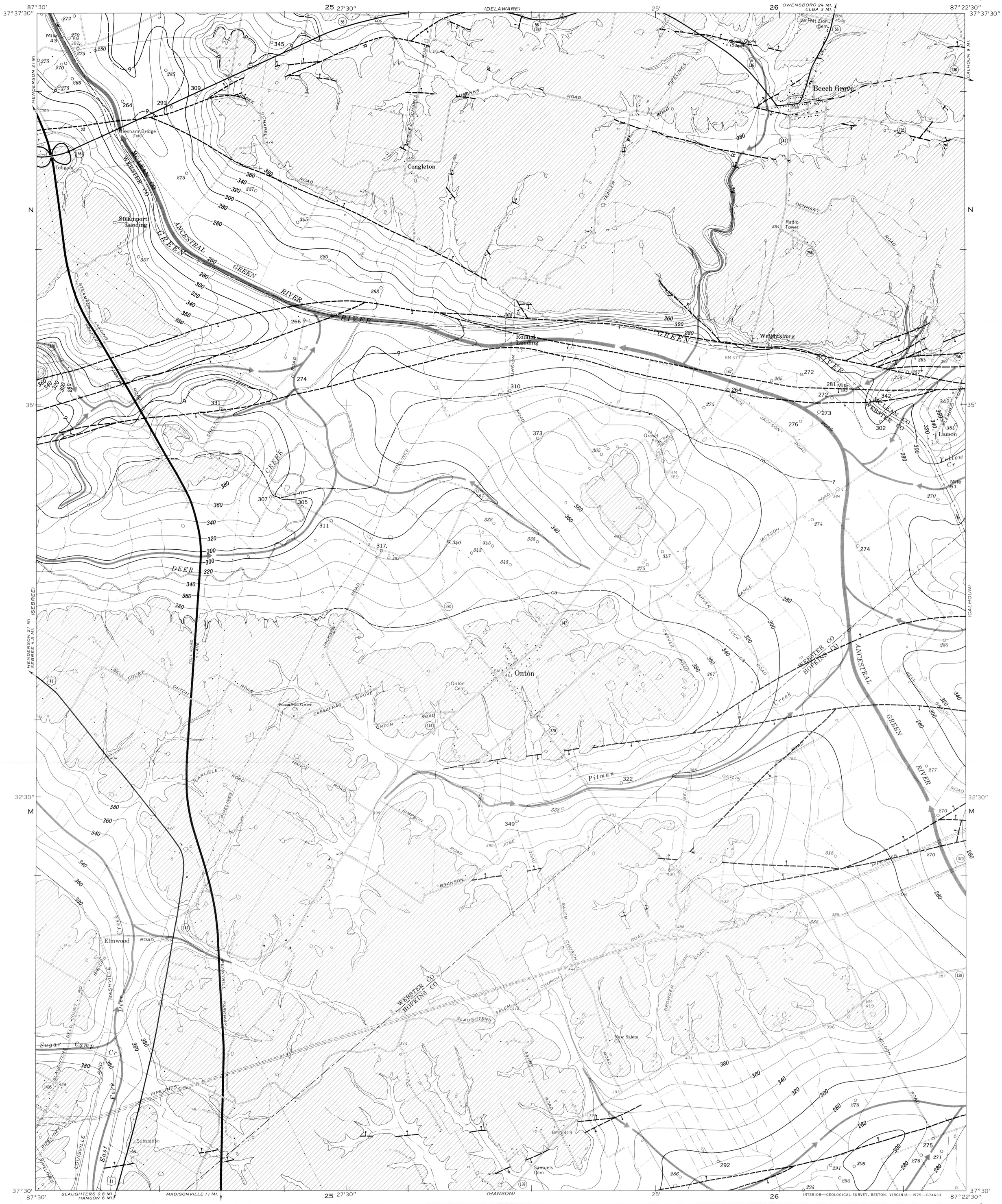
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
V. E. McKELVEY, DIRECTOR

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

MISCELLANEOUS GEOLOGIC INVESTIGATIONS
MAP I-887



Base from U.S. Geological Survey, 1952 Revised 1975

The Carter Coordinate System letters and numbers used to designate five-minute divisions of latitude and longitude are shown along the margins; tick marks indicate one-minute divisions

TRUE NORTH
MAGNETIC NORTH
2°
APPROXIMATE MEAN DECLINATION, 1975

SCALE 1:24 000
1 ½ 0 1 MILE

KENTUCKY
QUADRANGLE LOCATION

Compilation based in part on drill-hole data available as of Feb. 1, 1974, and in part on projection into subsurface of geologic data shown by Fairer and others (197 , in press)

EXPLANATION

ca
m
p
9
Alluviated area

Showing subcrop of selected beds in the Sturgis Formation of Late Pennsylvanian age and Carbondale Formation of Middle Pennsylvanian age. Lithology of Pennsylvanian rocks described by Fairer and others (197 , in press)

ca, *Carthage Limestone Member of the Sturgis Formation*
m, *Madisonville Limestone Member of the Sturgis Formation*
p, *Providence Limestone Member of the Sturgis Formation*
9, *No. 9 coal bed in Carbondale Formation. Projected where thought to be locally absent*

The alluviated valleys are filled with as much as 120 feet of unconsolidated material

Non-alluviated area
From map by Fairer and others (197 , in press)

Buried fault
Bar and ball on downthrown side

R
Buried reverse fault
R, *upthrown side*

300
Topographic contours on buried bedrock surface
Datum is mean sea level. Contours above 380 feet not shown. Contour interval 20 feet

Ancient stream course
Major streams and tributaries

322 340
Drill hole from which data used in map compilation were obtained. Subsurface data from logs and records of core holes, auger holes, and oil and gas tests. Figure indicates bedrock elevation in feet above mean sea level; italicized where highly interpretive (includes most rotary-drilled oil and gas test wells)

REFERENCE CITED

Fairer, G. M., Norris, R. L. and Johnson, W. D., Jr., 197 , Geologic map of the Beech Grove quadrangle, western Kentucky: U.S. Geol. Survey Geol. Quad. Map GQ-1230. In press.

MAP SHOWING BEDROCK TOPOGRAPHY AND SUBCROP OF SELECTED BEDS BENEATH ALLUVIAL DEPOSITS OF THE BEECH GROVE QUADRANGLE, WESTERN KENTUCKY

By

Ronald L. Norris

1975

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For sale by U.S. Geological Survey, Reston, Va. 22092, price 75 cents