



EXPLANATION

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|---------------------|---|------------|--------------------------------|
| Recent |
Qal
Alluvium
<i>Unsorted silt, sand, and gravel possibly as much as 50 feet thick. Yields small quantities of water to wells</i> | QUATERNARY | |
| Pleistocene(?) |
Gt
Terrace gravel
<i>Poorly sorted weakly cemented iron-stained gravel as much as 20 feet thick consisting of well-rounded chert and quartz fragments 1/2 inch to 2 inches in diameter in a silty sand matrix. Not known to yield water</i> | | |
| Upper Mississippian |
Msw
St. Louis and Warsaw Limestones-undifferentiated
<i>The St. Louis Limestone is represented only by dense angular chert fragments and round nodules of chert in a reddish clay soil. Thickness about 80 feet. Not known to yield water. The Warsaw Limestone is represented by blocky porous fossiliferous chert in a reddish clay soil. Thickness about 80 feet. Local chert zones and gravel stringers in the residuum may yield small quantities of water</i> | | MISSISSIPPIAN
CARBONIFEROUS |
| Lower Mississippian |
Mfp
Fort Payne Chert
<i>Consists of interbedded dense dark chert and highly siliceous, calcareous shaly siltstone that grades laterally into very rough platy and granular chert in a silty and calcareous matrix. Lower part of formation contains bed of medium-grained light-olive-gray fossil-fragmental limestone. Total thickness about 250 feet. Residuum derived from the Fort Payne yields small to large quantities of water, particularly in the valley of Trace Creek where wells yielding as much as 300 gpm have been developed. Numerous springs, some yielding as much as 600 gpm, occur in the lower part of the formation</i> | | |

Contact

Fault

Dashed where approximately located; dotted where concealed. U, upthrown side; D, downthrown side

Strike and dip of beds

Topography mapped and edited by Tennessee Valley Authority; published by U.S. Geological Survey, 1950

Geology by R. E. Lounsbury, U.S. Geological Survey, and C. P. Finlayson, Tennessee Division of Geology, 1960

GEOLOGIC MAP OF THE WAVERLY AREA, WESTERN HIGHLAND RIM, TENNESSEE

