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# Mineral and Fuel Resources Map of Kentucky

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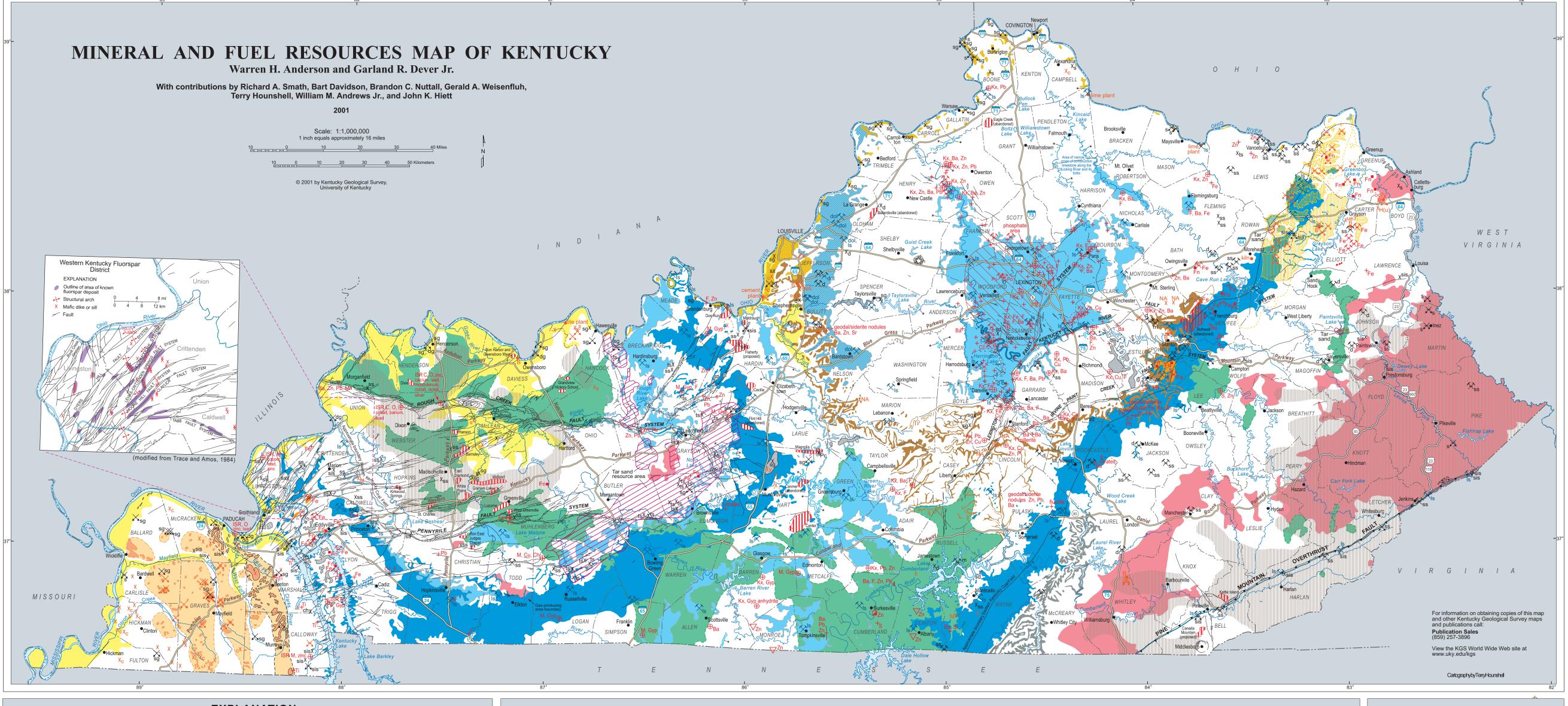
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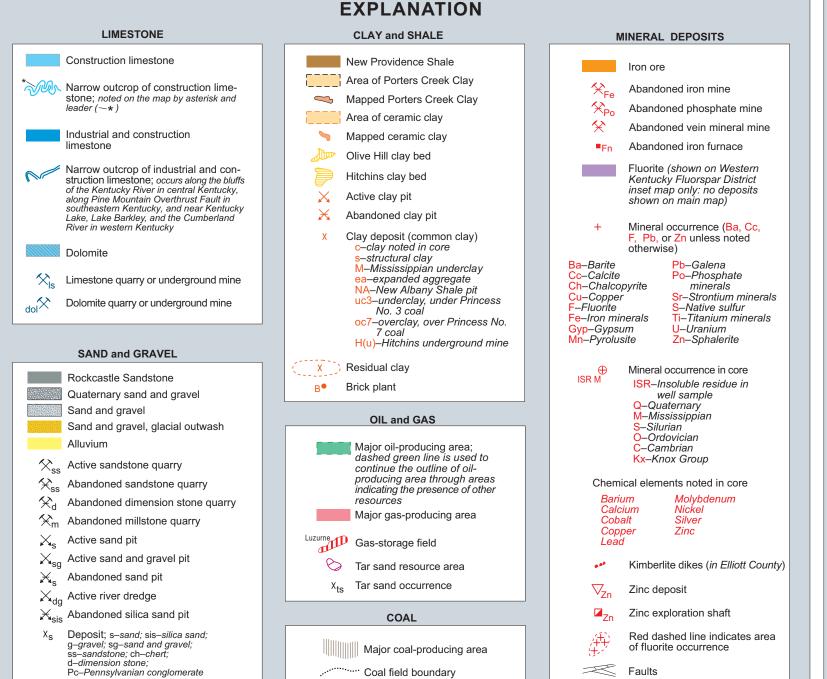
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## Minerals and Fuels of Kentucky

The production of minerals and fuels in Kentucky is a multibillion dollar industry. Historically, coal, oil, natural gas, limestone, sand and gravel, clay, fluorite, barite, lead, development of Kentucky by providing raw materials for the mid-1960's, the Western Kentucky Fluorspar District the early settlers who settled the state and for current was one of the world's largest producers of these minerals. we consume in everyday life come from the earth's mineral and fuel resources.

The ability to locate and efficiently use raw materials is important in virtually all economic activity in the state. general locations of the principal mineral and fuel resources in Kentucky. The "Geologic Map of Kentucky" (Noger, 1988) has additional geologic information about these resources. For detailed information about geology and mineral resources, consult the 7.5-minute geologic quadrangle maps for Kentucky.

Coal occurs in two regions of Kentucky: the Eastern Kentucky Coal Field (a part of the Appalachian Basin) and and lightweight aggregate. the Western Kentucky Coal Field (a part of the Illinois remaining coal resources, estimated at 90 billion short tons, are also among the largest deposits in the United States.

Limestone and dolomite are mined in Kentucky for a variety of products, including construction aggregate, lime, cement, and agricultural limestone. Coal-related industries use limestone for controlling acid drainage, mine reclamation, explosion abatement in underground mines, investigated the mineral and fuel resources of Kentucky and in scrubbers at coal-burning power plants to reduce for more than 150 years, as mandated by Kentucky Revised sulfur emissions entering the atmosphere. One of the largest Statute. Questions concerning the mineral and fuel resources operating limestone quarries in the United States is located of Kentucky should be directed to the Director, Kentucky

Kentucky has an estimated original petroleum resource heavy oil, and more than 100 trillion cubic feet of natural Pennsylvanian rocks. In central Kentucky, oil and natural citizens each year.

gas are produced from Ordovician and Silurian rocks. In eastern Kentucky, oil and natural gas are produced from Silurian, Devonian, Mississippian, and Pennsylvanian rocks.

In the past, a variety of ore minerals, including fluorite, iron, phosphate, zinc, and brines have been produced in sphalerite, galena, and barite, were mined in Kentucky. At the state. These resources have greatly influenced the the time of its peak production during World War II and in industrial and economic development. Electrical power for Monroe, Cumberland, and Clinton Counties of the Southhomes, businesses, and factories; materials for constructing Central Kentucky Mineral District are known to have houses, buildings, automobiles, and roads; and products mineral deposits that contain zinc. The Central Kentucky Mineral District has produced barite, sphalerite, fluorite, calcite, and galena. Although there is no mining activity in any of the districts at the present time, mining companies continue to explore these areas for economic deposits. Iron The purpose of this 1:1,000,000-scale map is to show the ores and phosphate minerals were mined in Kentucky before higher grade deposits were discovered elsewhere in the United States.

> A variety of minerals classified as clay materials are mined in Kentucky, including common clay, ceramic and ball clays, refractory clay, and shale. These materials are used in the manufacture of brick, tile, sanitary ware, china, and pottery, and have been used as industrial absorbents

Sand and gravel are mined in Kentucky and are used Basin). Kentucky has been among the top three coal- extensively as construction materials and aggregate for producing states for more than 50 years. Kentucky's roads and buildings. Common and silica sands have been mined for concrete and glassmaking, respectively. Sands bearing titanium minerals are found in the Jackson Purchase Region of western Kentucky. Tar sands (asphaltic sandstone) mined in west-central Kentucky have been used as road aggregate and are also a potential source of petroleum. Geologists at the Kentucky Geological Survey have Geological Survey, 228 Mining and Mineral Resources Building, University of Kentucky, Lexington, KY 40506of 2.3 billion barrels of mobile oil, 3.4 billion barrels of 0107. The Kentucky Geological Survey maintains the official State repository of oil and natural gas drilling gas resources. At least 0.75 billion barrels of oil and 4.7 records, the official Ground-Water Data Repository, the trillion cubic feet of natural gas have been produced in Kentucky Well Sample and Core Library, and other Kentucky. In western Kentucky, oil and some natural gas databases on coal, minerals, geology, maps, and are produced primarily from Mississippian and paleontology. This information is used by thousands of

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