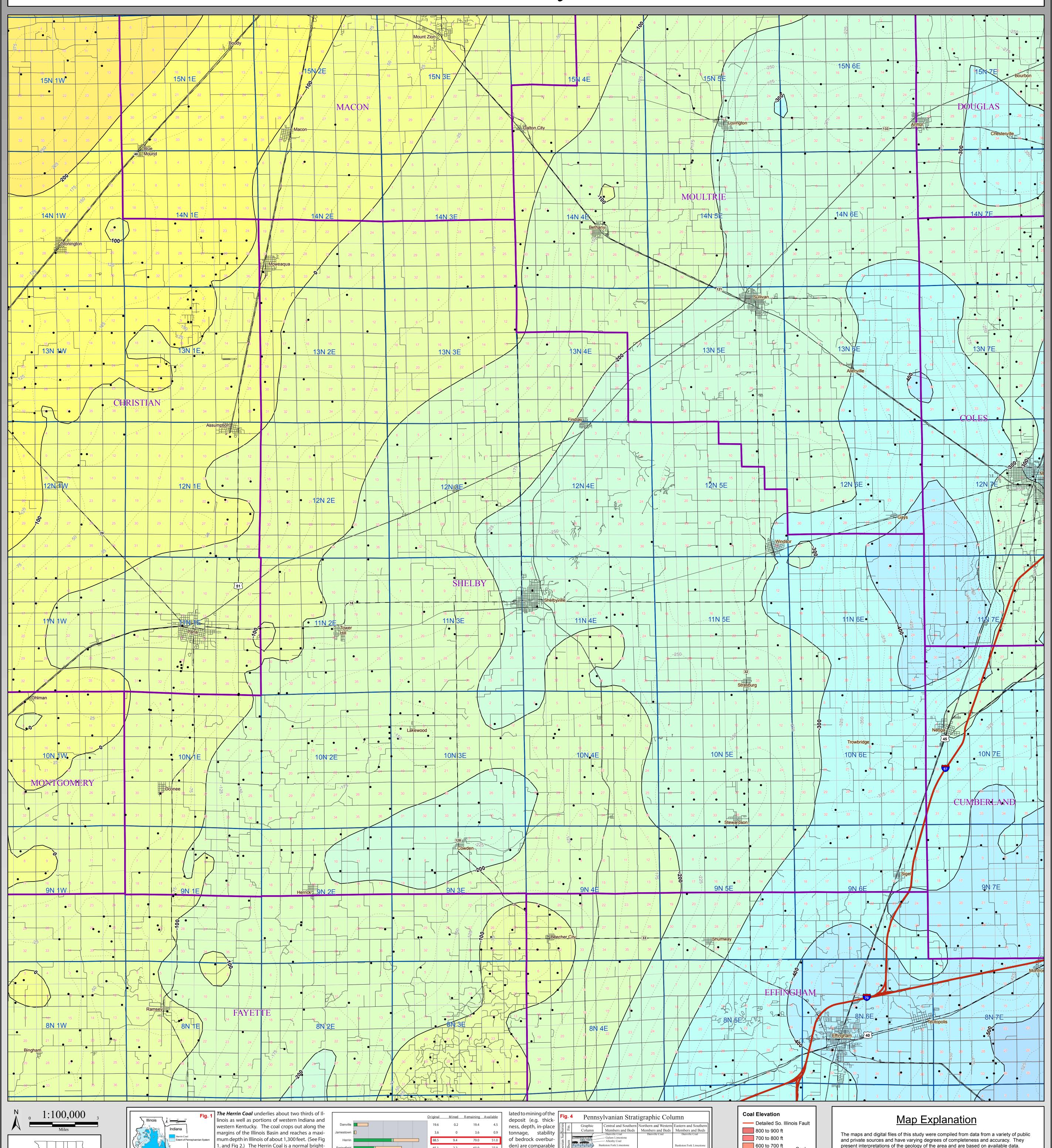
http://www.isgs.illinois.edu

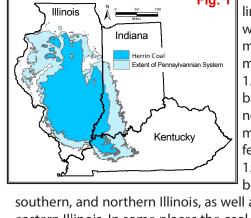
Herrin Coal Elevation SHELBY County

County Coal Map Series ISGS Coal Section Map construction: May, 2015

This product is under review and may not meet the standards of the Illinois State Geological Survey.

County coal maps and select quadrangle maps available as downloadable PDF files at: http://www.isgs.illinois.edu





1. and Fig 2.) The Herrin Coal is a normal brightbanded coal. Its lower portion contains a prominent claystone parting (the "blue band") that normally is 1-3 inches thick. It averages more than 6 feet thick in extensive areas and locally reaches

15 feet. It is thin in much of central Illinois but has been extensively mined in western, west-central, southern, and northern Illinois, as well as in the southern part of the Danville region of eastern Illinois. In some places the coal is cut out by channels filled with the Anvil Rock

i illinois, ili some piaces the coaris cut out by chai	ineis illieu with the Anvii Nock
	Sandstone Member. In parts
Well locations S Intersection with W-E section	of Illinois, silty gray shale as
Top of leafons	much as 100 feet thick over-
Springfield Coal	lies the Herrin Coal. Associ-
Caribace Ls	ated with this shale is a chan-
ase of the Contact of	nel sandstone commonly as
Quaternary System	much as a mile wide and 60-
E Pennsylvanian System Bond & Mattoon Fms	80 feet thick mapped as Anvil
Patoka & Shelburn Fms Carbondale Fm	Rock Sandstone and may be
S Caseyville & Tradewater Fms h-south cross section of the Pennsylvanian System in Illinois	contemporaneous with the
h-south cross section of the Pennsylvanian System in Illinois e: apparent thickness and dip are distorted due to vertical exaggeration.)	coal. In areas where the coal

■ Avail. w/ potential restr

221.1 12.5 208.6 is overlain by relatively thick bodies of the gray shale of up to a few tens of feet it has a much lower sulfur content than elsewhere. The gray shale overlies the coal principally in parts of Williamson, Franklin, Jefferson, Madison, St. Clair, eastern Macoupin, and S. Vermilion. Generally, however the Herrin Treworgy, et al) Coal is overlain by either the Anna Shale Member (black fissile shale) or the

Brereton Limestone Member. (Hopkins, 1968 - B95, See Fig 4.) The original resource of Herrin Coal in the State of Illinois totals 88.5 billion References: Herrin Coal resources, 51 billion tons, are considered available for mining. (See

ness, depth, in-place	11 0 1 1	Fm.	Graphic Column		
tonnage, stability of bedrock overbur- den) are comparable to other coals cur- rently being mined	Desmoinesian SerS	Shelburn	×××××××××××××××××××××××××××××××××××××××	Bar	
in the state. Of these resources, 21 billion tons occur in coal 42 to 66 inches thick and 30 billion tons	Desmoinesian Series	Carbondale	**************************************	Bri	a
occur in thicknesses greater than 66 inch- es. (Modified from ISGS Pub. IM 120, Traworgy et al)	Desmoi	Carbo	******	Roc	

Anvil Rock Sandstone Conant Limestone Jamestown Coal Brereton Limestone Anna Shale Energy Shale Herrin Coal Anvil Rock Sandstone Lawson Shale Briar Hill Coal Canton Shale Canton Shale St. David Limestone Turner Mine Shale Houchin Creek Coal oodhouse Coal leasantview Sandstone

tons, of which 9.4 billion have been mined. Approximately 58% of the original - Handbook of Illinois Stratigraphy, 1975, Illinois State Geological Survey Bulletin 95, 261p. - Treworgy, C.G., C.P. Korose, C.A. Chenoweth, and D.L. North, 1999a, Availability of the Herrin Fig 3.) Available means that the surface land-use and geologic conditions re-

600 to 700 ft 500 to 600 ft elevation 400 to 500 ft data point 300 to 400 ft 200 to 300 ft 100 to 200 ft 0 to 100 ft -100 to 0 ft -200 to -100 ft -300 to -200 ft -400 to -300 ft -500 to -400 ft -600 to -500 ft -700 to -600 ft -800 to -700 ft

-900 to -800 ft

< -900 ft

present interpretations of the geology of the area and are based on available data. However, these interpretations are based on data that may vary with respect to accuracy of geographic location, type, quantity, and reliability, as they were supplied to the Illinois State Geological Survey. Consequently, the accuracy of the interpreted features shown in these files is subject to the limitations of the data and varies from place to place.

Contoured features less than 7 million square feet (about 1/2 mile square) in area may not be accurately portrayed or resolved. This data set provides a large-scale conceptual model of the geology of the area on which to base further work. These data are not intended for use in site-specific screening or decision-making. Data included in this map are suitable for use at a scale of 1:100,000.

Disclaimer

The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

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