

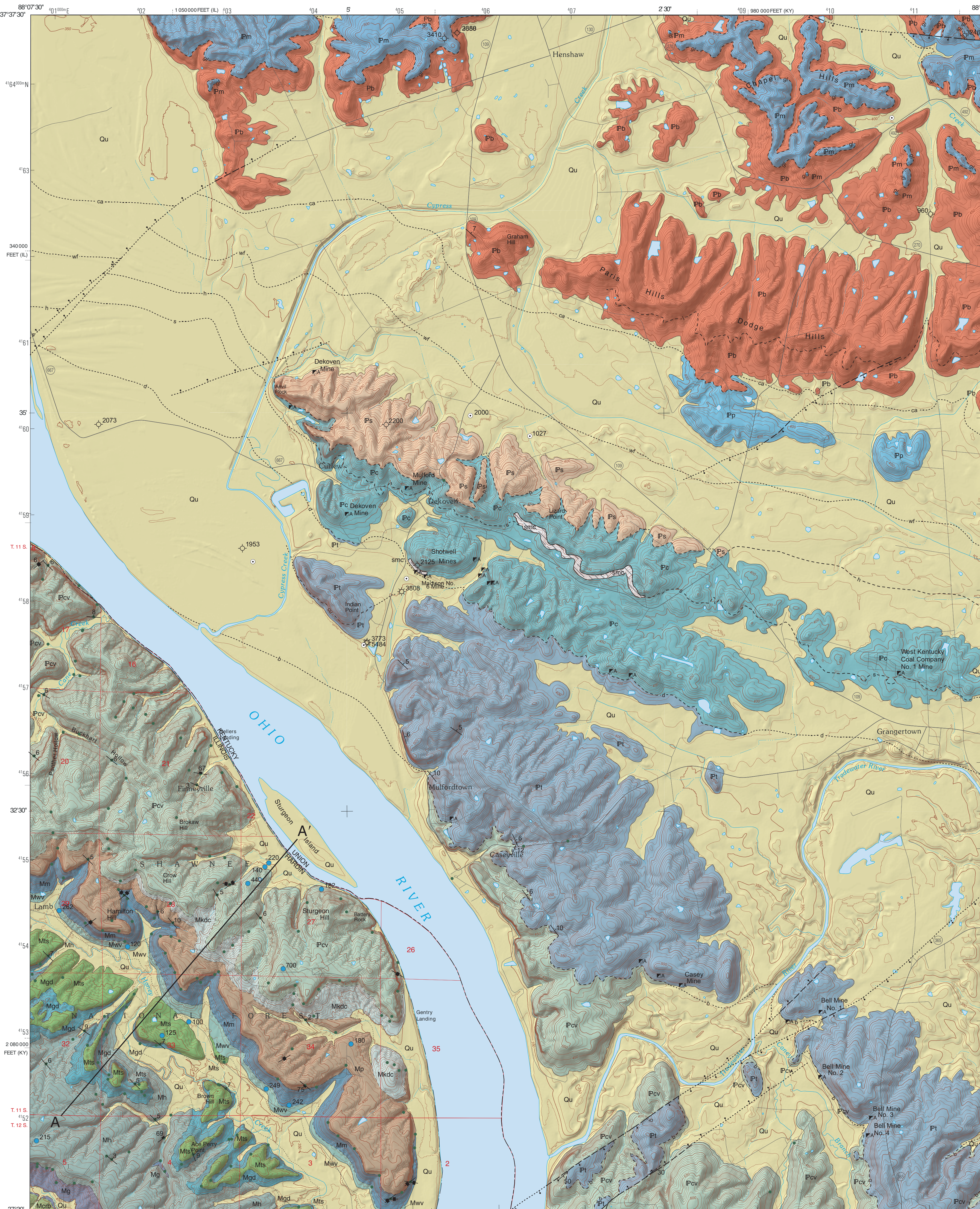
BEDROCK GEOLOGY OF DEKOVEN QUADRANGLE

HARDIN COUNTY, ILLINOIS, AND UNION AND CRITTENDEN COUNTIES, KENTUCKY

Prairie Research Institute
 ILLINOIS STATE GEOLOGICAL SURVEY

STATEMAP Dekoven-BG

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 2013



EXPLANATION						
		Surface mine (coal mine)				
Quaternary	{		Quaternary undifferentiated	{	Holocene and Pleistocene	
		Unconformity				Mattoon Formation gl, Geiger Lake Coal
				Bond Formation l, Lisanan Coal ca, Carthage Limestone	{	Missourian
				Patoka Formation		
Pennsylvanian	{		Shelburn Formation wf, West Franklin Limestone	{	Demoinesian	
			Carbondale Formation h, Herrin Coal s, Springfield Coal d, Davis Coal			
			Tradewater Formation cu, Curlew Limestone b, Bell Coal	{	Atokan	
			Caseyville Formation			
Mississippian	{	Unconformity		{	Chesterian	
			Palestine Sandstone			
			Menard Limestone			
			Tar Springs Sandstone			
			Waltersburg Formation and Vienna Limestone			
			Glen Dean Limestone			
			Hardinsburg Sandstone			
			Golconda Formation			
		Cypress Sandstone, Ridenhower Formation, and Bethel Sandstone				

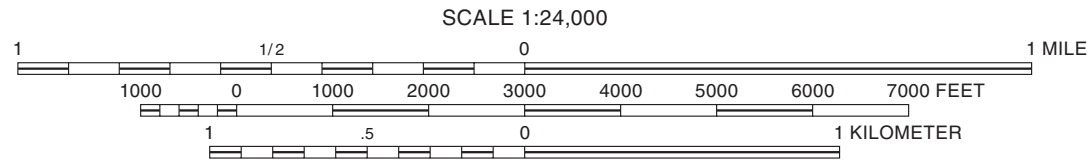
Symbols	
	Strike and dip of bedding; number indicates degree of dip
	Vertical joint
	Inclined joint; number indicates degree of dip
	Abandoned shaft mine
	Abandoned slope mine
	Field notes
Drill Holes	
	Stratigraphic boring
	Water well
	Numeric label indicates total depth of boring in feet.
Line Symbols	
	Long dash where approximately located, short dash where inferred, dotted where concealed
	Contact
	Normal fault; bar and ball on downthrown side
	Line of cross section

Note: Well and boring records are on file at the ISGS Geological Records Unit and are available online from the ISGS website. Well and boring records in Kentucky are available on the Kentucky Geological Survey website.

Base map compiled by Illinois State Geological Survey from digital data (2011 US Topo) provided by the United States Geological Survey. Shaded relief and contours derived from USGS NED and Salline Watershed LIDAR elevation data.

North American Datum of 1983 (NAD 83)
 Projection: Transverse Mercator
 10,000-foot ticks: Illinois Coordinate system, east zone and Kentucky Coordinate System, south zone
 1,000-meter ticks: Universal Transverse Mercator grid system, zone 16

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BASE MAP CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

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Illinois geology based on field work by Mary J. Seid, F. Brett Denny, and W. John Nelson, 2012–2013. Kentucky geology based on Trace (1947) and Martin (2002).

Digital cartography by Jennifer E. Carrell, Coy E. Potts, and Jane E. Johnshoy Domier, Illinois State Geological Survey.

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This map has not undergone the formal Illinois Geologic Quadrangle map review process. Whether or when this map will be formally reviewed and published depends on the resources and priorities of the ISGS.

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4	5	
6	7	8

ADJOINING QUADRANGLES
 1 Shawneetown
 2 Grove Center
 3 Morganfield
 4 Saline Mines
 5 Sturgis
 6 Cave-in-Rock
 7 Repton
 8 Blackford

2 1/2°
 APPROXIMATE MEAN DECLINATION, 2013

ROAD CLASSIFICATION

