

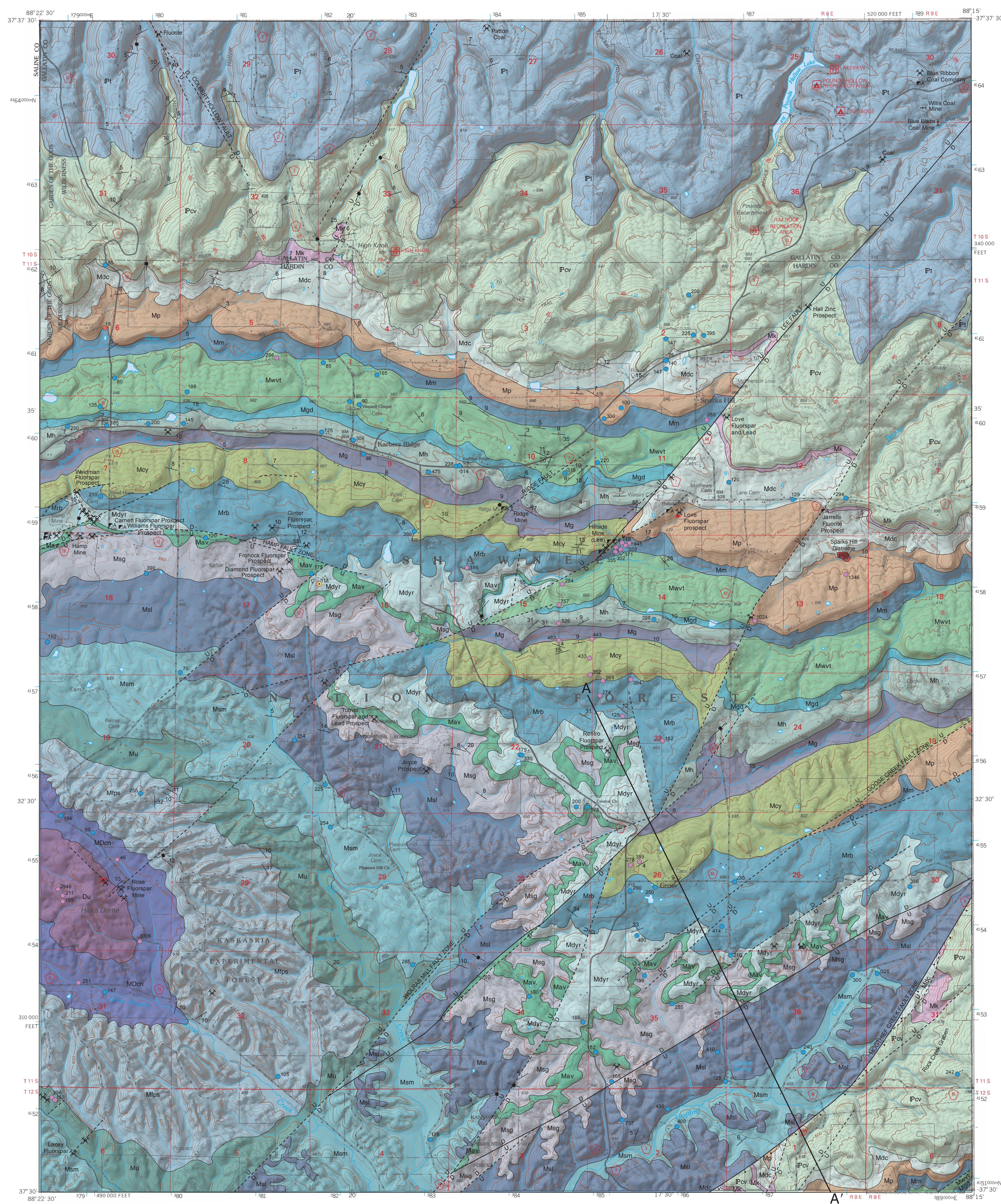
BEDROCK GEOLOGY OF KARBERS RIDGE QUADRANGLE

HARDIN, GALLATIN, AND SALINE COUNTIES, ILLINOIS

Institute of Natural Resource Sustainability
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 ILLINOIS STATE GEOLOGICAL SURVEY
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Illinois Geologic Quadrangle Map
 IGQ Karbers Ridge-BG

F. Brett Denny, Bradley King, Joseph Mulvaney-Norris, and David H. Malone
 2010



EXPLANATION

- | | | | |
|---------------|--|---|------------------------------------|
| Permian | | Igneous dikes, sills, and pipes | Leonardian |
| | Unconformity | | |
| Pennsylvanian | | Tradewater Formation | Atokan |
| | Unconformity | | |
| | | Caseville Formation | Morrowan |
| | Unconformity | | |
| | Kinkaid Limestone | | |
| | Degonia Sandstone and Clore Formation | | |
| | Palestine Sandstone | | |
| Unconformity | | | |
| | Menard Limestone | | |
| | Waltersburg Formation, Vienna Limestone, and Tar Springs Sandstone | | |
| Unconformity | | | |
| | Glen Dean Limestone | | |
| | Hardinsburg Sandstone | Chesterian | |
| Unconformity | | | |
| | Golconda Formation | | |
| Mississippian | | Cypress Sandstone | |
| | Unconformity | | |
| | | Ridenhower Formation and Bethel Sandstone | |
| | Unconformity | | |
| | Downs Bluff Limestone, Yankeetown Formation, and Renault Limestone | | |
| | Aux Vases Sandstone | | |
| | St. Genevieve Limestone | | |
| | St. Louis Limestone | | |
| | Salem Limestone | Valmeyeran | |
| Unconformity | | | |
| | Ullin Limestone | | |
| Unconformity | | | |
| | Fort Payne Formation and Springville Shale | | |
| Devonian | | Chouteau Limestone and New Albany Shale | Kinderhookian and Devonian (Upper) |
| | | Devonian undifferentiated (St. Laurent Formation, Grand Tower Limestone, and Clear Creek Chert) | |
| | | | Devonian (Middle and Lower) |

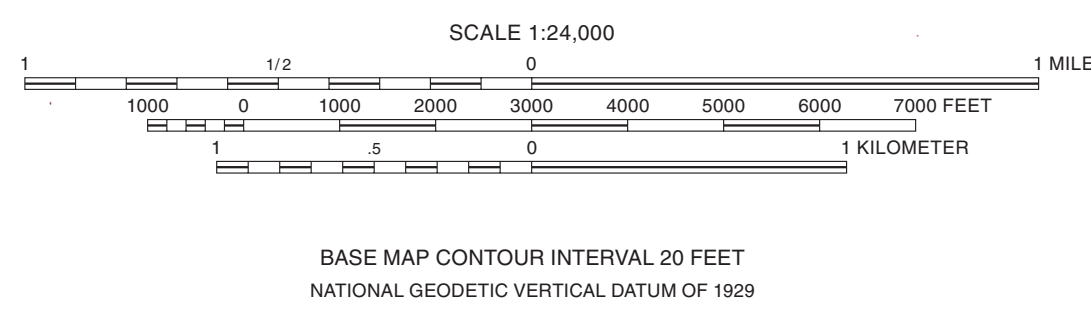
Symbols

- Strike and dip of bedding; number indicates degree of dip
 - Vertical joints
 - Abandoned drift mine (fluorite or coal)
 - Abandoned pit (fluorite or coal)
 - Abandoned mine (fluorite or coal)
- ### Drill Holes
- Stratigraphic boring
 - Water wells
 - Engineering boring
 - Mineral exploration borings
 - Label indicates core (C). Numeric label indicates total depth of boring in feet.
- ### Line Symbols
- dashed where inferred
- Contact
 - Igneous dike
 - Fault
 - Normal fault; bar and ball on downthrown side
 - Fault; U on upthrown side, D 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 Web site.

Base map compiled by Illinois State Geological Survey from digital data (Raster Feature Separates) provided by the United States Geological Survey, Topography compiled 1957, Planimetry derived from imagery taken 1993, PLSS and survey control current as of 1996. Partial field check by U.S. Forest Service 1996. Hillshade from USGS National Elevation Data.

North American Datum of 1927 (NAD 27)
 Projection: Transverse Mercator
 10,000-foot ticks: Illinois State Plane Coordinate system, east zone (Transverse Mercator)
 1,000-meter ticks: Universal Transverse Mercator grid system, zone 16

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Geology based on field work by F. Brett Denny, Bradley King, Joseph Mulvaney-Norris, and David H. Malone (Illinois State University), 2009–2010.
 Digital cartography by Jane E.J. Dornier and Dawn V. Heckmann, Illinois State Geological Survey, Hillshade by Donald E. Luman.

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4	5	
6	7	8

ADJOINING QUADRANGLES
 1 Rudement
 2 Equality
 3 Shawneetown
 4 Herod
 5 Saline Mines
 6 Sherterville
 7 Proscare
 8 Cave-in-Rock

APPROXIMATE MEAN DECLINATION, 2010

ROAD CLASSIFICATION

- Light-duty road, hard or improved surface
- Light-duty road, dirt
- Unimproved road
- County Route

