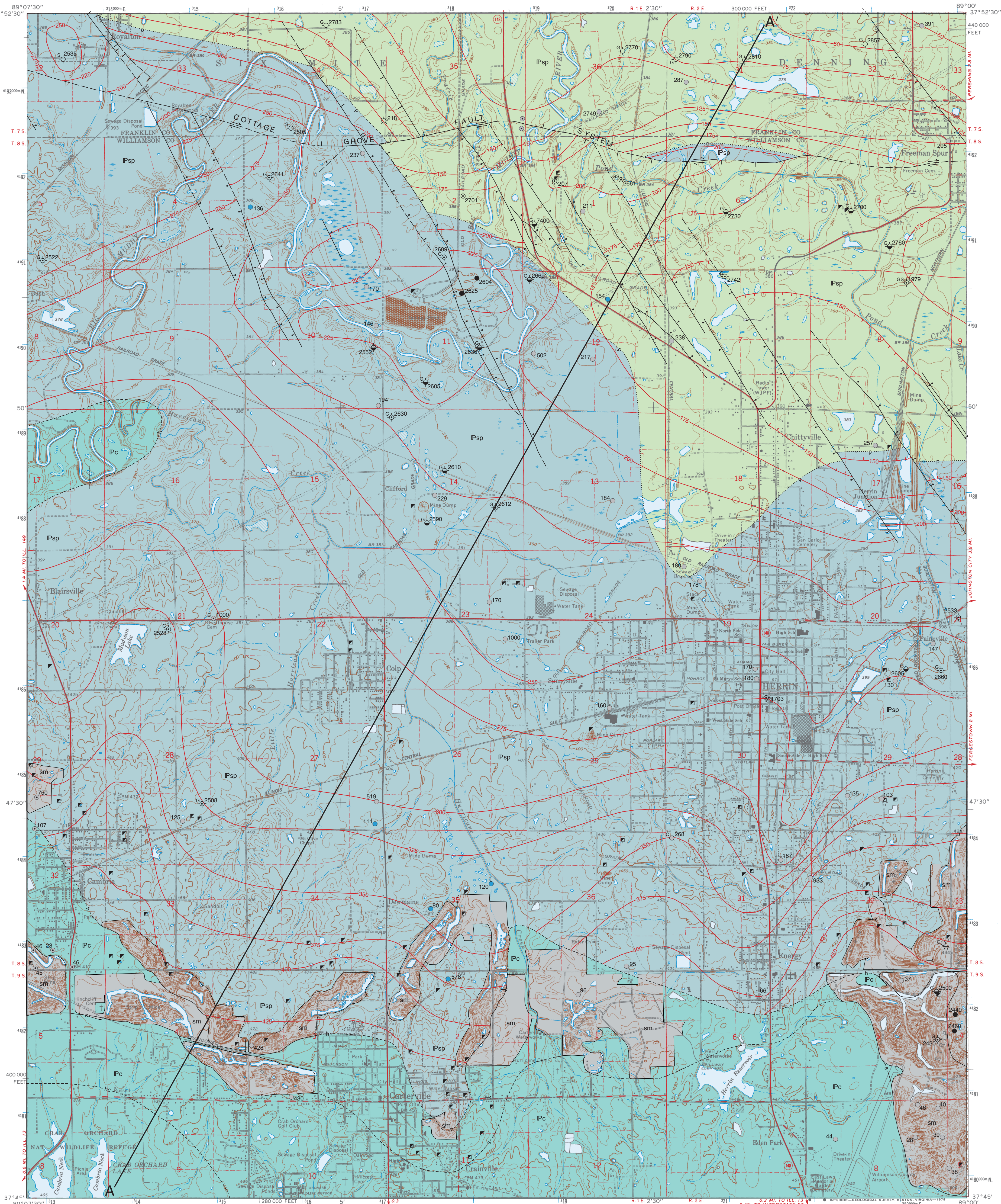


BEDROCK GEOLOGY OF HERRIN QUADRANGLE
WILLIAMSON AND FRANKLIN COUNTY, ILLINOIS

Illinois Department of Natural Resources
ILLINOIS STATE GEOLOGICAL SURVEY
William W. Shilts, Chief

Illinois Geologic Quadrangle Map
IGQ Herrin-BG

W. John Nelson
2007



EXPLANATION

sm Surface mine

Pennsylvanian { Psp Shelburn and Patoka Formations undivided p. Plasa Limestone Member Pc Carbondale Formation h. Herrin Coal Member s. Springfield Coal Member hc. Houchins Creek Coal Member } Desmoinesian

Symbols

Drift mine
Shaft mine
Slope mine

Drill Holes
from which subsurface data were obtained

Water well
Coal boring
Oil well
Dry hole
Dry hole - show of oil
Gas well (gas from abandoned coal mines)

CSG G 210

Line Symbols
dashed where inferred, dotted where concealed

Contact or coal subcrop
Normal fault: bar and ball on downthrown side
Fault, type unknown: ticks on downthrown side
Strike-slip fault
Elevation of top of Herrin Coal, contour interval 25 feet

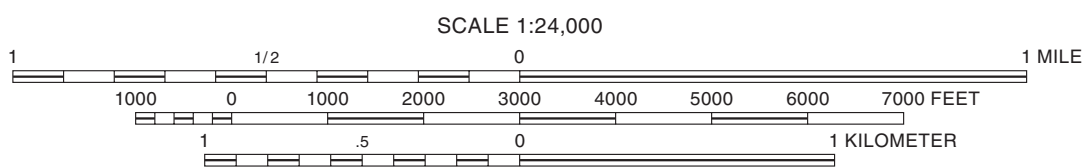
A—A' Line of cross section

Note: This is a subcrop map, showing bedrock surface with all Quaternary deposits removed. Geology shown as it was prior to surface mining. Faults are shown where they intersect the Herrin Coal. Well and boring records are on file at the ISGS Geologic Records Unit and are available online from the ISGS Web site.

Base map compiled by Illinois State Geological Survey from digital data provided by the United States Geological Survey. Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1968. Revision from aerial photos taken 1976. Map edited 1978.

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

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

Released by the authority of the State of Illinois: 2007

Geology based on field work and data analysis by W.J. Nelson, 2001–2003.

Digital cartography and graphics by J. Domier, T. Goepfinger, M. Widener, M. Jones, L. Verhelst, and S. Gegan, Illinois State Geological Survey.

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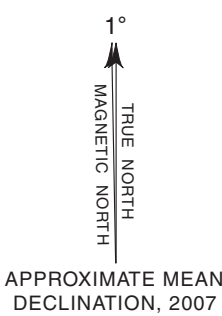


For more information contact:
Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820-6964
(217) 244-2414
<http://www.isgs.uiuc.edu>



1	2	3
4	5	
6	7	8

ADJOINING QUADRANGLES
1 Elvito
2 Christopher
3 West Frankfort
4 De Soto
5 Johnston City
6 Carbondale
7 Crab Orchard Lake
8 Marion



ROAD CLASSIFICATION	
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
	State Route

