

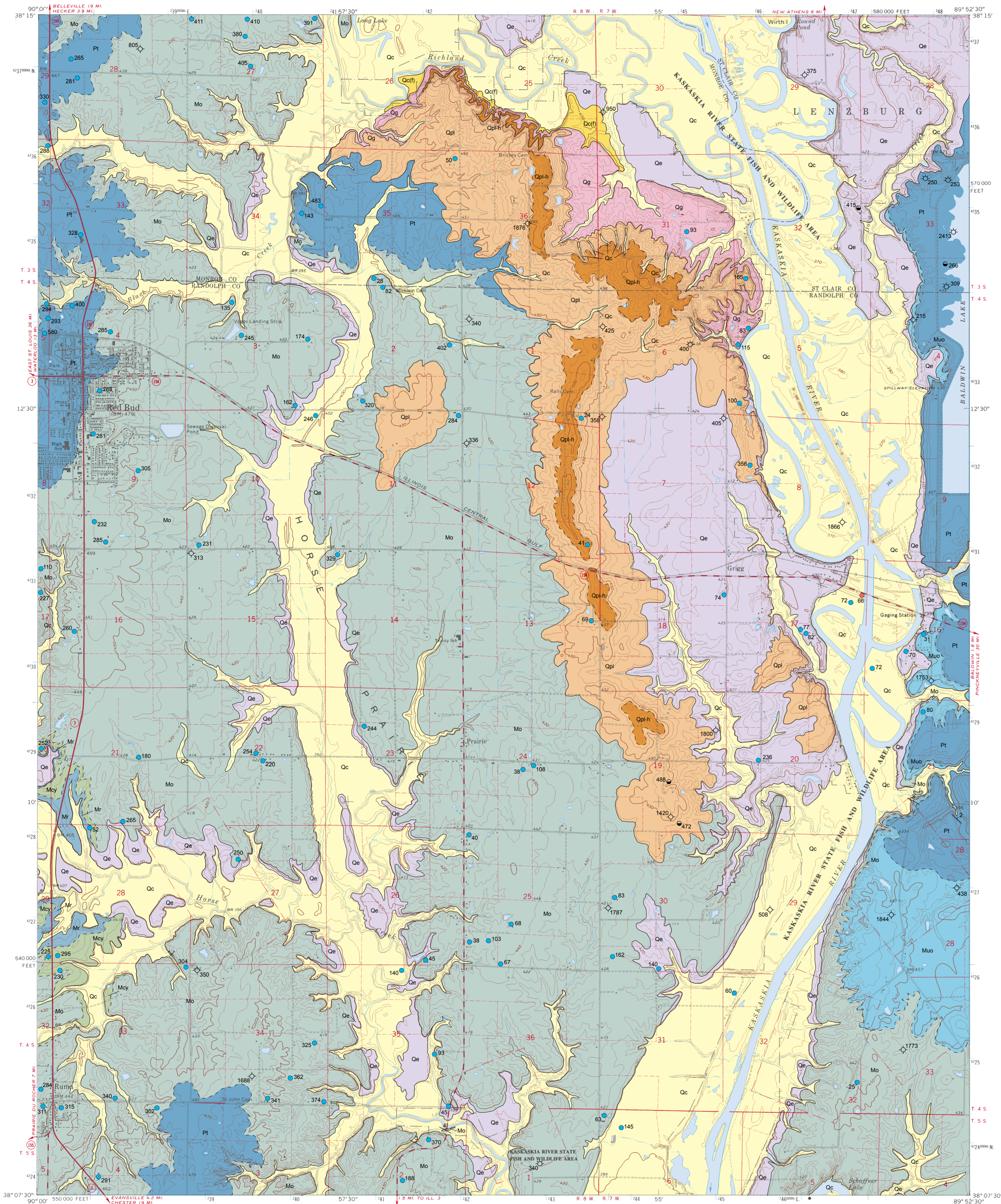
# GEOLOGY OF RED BUD QUADRANGLE

## RANDOLPH, MONROE AND ST. CLAIR COUNTIES, ILLINOIS

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

Illinois Preliminary Geologic Map  
IPGM Red Bud-G

Joseph A. Devera  
2004



### EXPLANATION

	<span style="background-color: #ffffcc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qc	Cahokia Formation	} Holocene	
	<span style="background-color: #ffffcc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qc(f)	Cahokia Formation (fan deposits)		
Quaternary		<span style="background-color: #e0e0e0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qe	Equality Formation over Henry Formation	} Pleistocene
		<span style="background-color: #d2b48c; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qpl-h	Pearl Formation Hagarstown Member	
		<span style="background-color: #d2b48c; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qpl	Pearl Formation	
Pennsylvanian		<span style="background-color: #f080f0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Qg	Glasford Formation	} Desmoinesian Atokan
		<span style="background-color: #4682b4; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Pt	Tradewater Formation	
		<span style="background-color: #4682b4; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Muo	"Upper Okaw" includes Tar Springs, Vienna, Waltersburg	
Mississippian		<span style="background-color: #c0c0c0; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Mo	"Lower Okaw" includes Glen Dean and Golconda	} Chesterian
		<span style="background-color: #90ee90; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Mcy	Cypress Sandstone	
		<span style="background-color: #4682b4; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Mr	Ridenhower Formation	

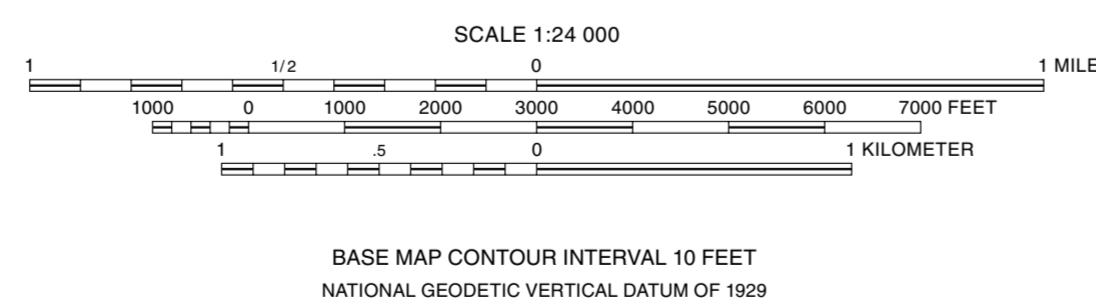
### Symbols

40 Strike and dip of bedding; number indicates degree of dip  
X Abandoned quarry  
**Drill Holes**  
◇ from which subsurface data was obtained  
○ Dry oil test hole  
● Show of oil  
⊗ Show of gas  
● 210 Water well  
● 75 Engineering boring  
 Note: Numbers indicate total depth of boring in feet.  
**Line Symbols**  
 dashed where inferred, dotted where concealed  
 Contact

Base map compiled by Illinois State Geological Survey from digital data provided by the United States Geological Survey. Topography compiled from imagery dated 1968. Field checked 1970. Photorevision in 1982 from imagery dated 1980.

North American Datum of 1983 (NAD 83)  
Projection: Transverse Mercator  
10,000-foot ticks: Illinois State Plane Coordinate system, west zone (Transverse Mercator)  
1,000-meter ticks: Universal Transverse Mercator grid system, zone 16

**Recommended citation:**  
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Released by the authority of the State of Illinois: 2004

Geology based on field work by Joseph A. Devera, 2003-2004.

Digital cartography by L. Verhelst and J. Domier, Illinois State Geological Survey.

This Illinois Preliminary Geologic Map (IPGM) is a lightly edited product, subject to less scientific and cartographic review than our Illinois Geological Quadrangle (IGQ) series. It will not necessarily correspond to the format of IGQ series maps, or to those of other IPGM series maps. Whether or when this map will be upgraded depends on the resources and priorities of the ISGS.

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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 Fladerborn  
 2 New Athens West  
 3 New Athens East  
 4 Ames  
 5 Baldwin  
 6 Prairie Du Rocher  
 7 Evansville  
 8 Walsh

MAGNETIC NORTH  
TRUE NORTH

APPROXIMATE MEAN DECLINATION, 2004

ROAD CLASSIFICATION

Primary highway, hard surface	<span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Light-duty road, hard or improved surface
Secondary highway, hard surface	<span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Unimproved road
<span style="border-bottom: 2px dashed black; width: 20px; display: inline-block;"></span>	

84 Interstate Route   
 28 U.S. Route   
 15 State Route