

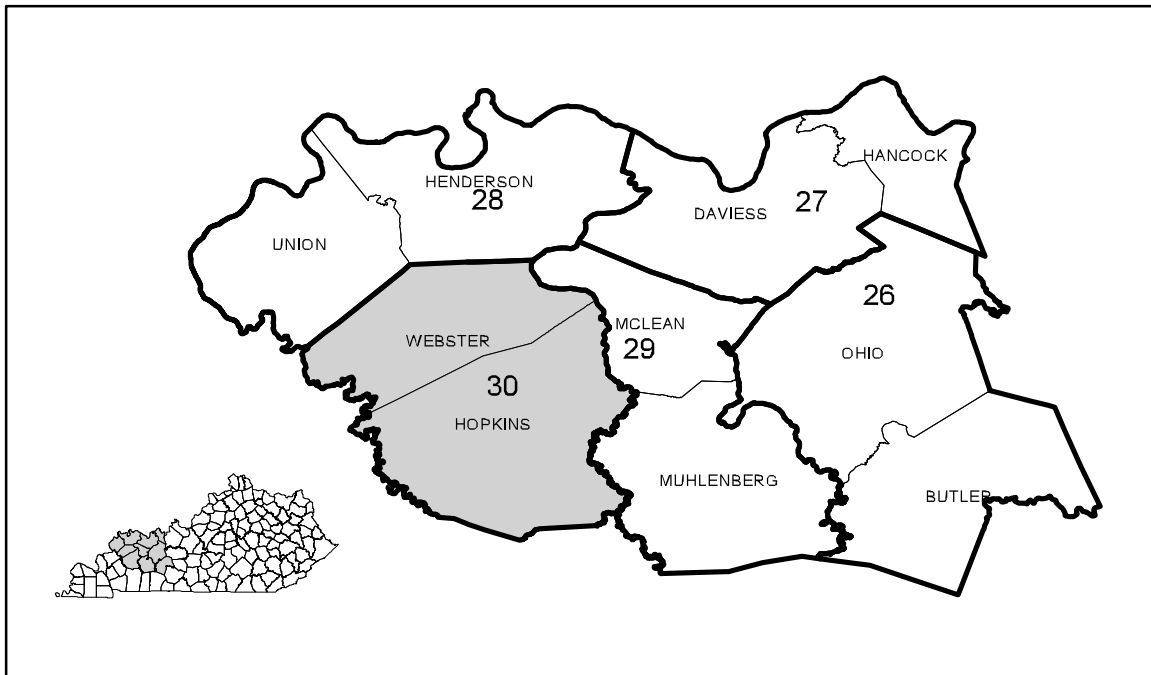
DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH  
THE COMMONWEALTH OF KENTUCKY  
AND THE KENTUCKY GEOLOGICAL SURVEY  
UNIVERSITY OF KENTUCKY

AVAILABILITY OF GROUND WATER IN HOPKINS  
AND WEBSTER COUNTIES, KENTUCKY

By  
B.W. Maxwell and R.W. Duvaul

HYDROLOGIC INVESTIGATIONS  
ATLAS HA-30



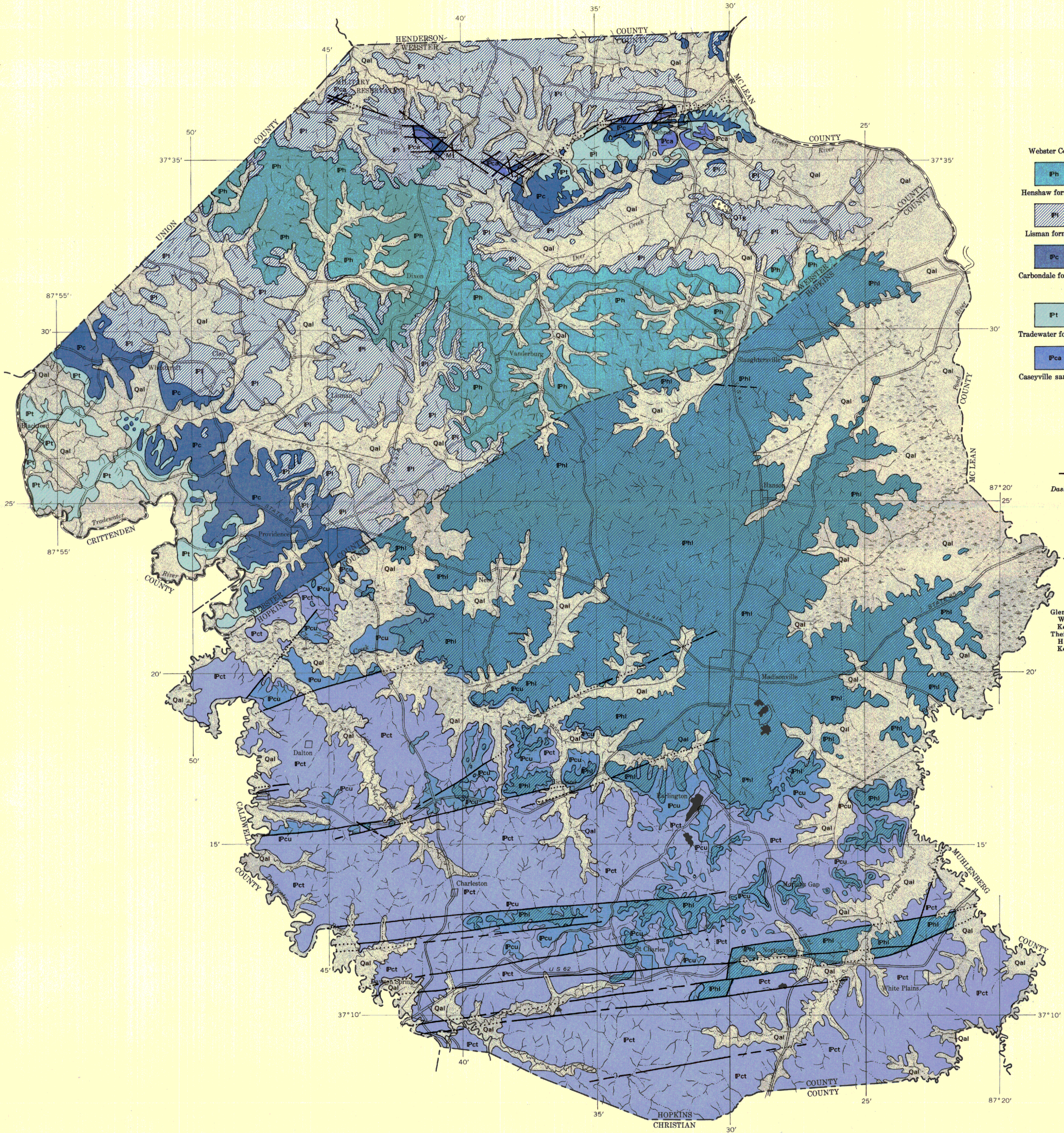
INDEX MAP OF THE WESTERN COAL FIELD REGION, KENTUCKY, SHOWING COUNTY  
GROUPS AND AREA OF THIS ATLAS

This is 1 of 5 atlases (HA-26 to HA-30) showing geology and availability of ground water in the Western Coal Field region, Kentucky U.S. Geological Survey Water-Supply Paper 1599 contains a text description and illustrations providing further information on the occurrence and quality of ground water in the Western Coal Field region.

PUBLISHED BY THE U.S. GEOLOGICAL SURVEY

WASHINGTON, D.C.

1962



**EXPLANATION**

	Qal	QUATERNARY
	Gravel	
TERTIARY(?) AND QUATERNARY		
	Ph	PENNSYLVANIAN
	Lisman formation	
	Pc	CARBONIFEROUS
	Pt	
	Pca	CARBONIFEROUS
	Pcu	
	M	MISSISSIPPIAN

**Webster County**

- Henshaw formation
- Lisman formation
- Carbondale formation
- Tradewater formation
- Caseville sandstone

**Hopkins County**

- Henshaw and Lisman formation undifferentiated
- Carbondale formation, upper part, including No. 9 coal and above
- Carbondale formation below No. 9 coal, Tradewater formation, and Caseville sandstone undifferentiated

**Sedimentary rocks**

**Contact**

**Fault**  
Dashed where approximately located; dotted where concealed

**REFERENCES**

Glenn, L. C., 1923, Geologic map of Webster County, Kentucky: Kentucky Geol. Survey ser. 6.

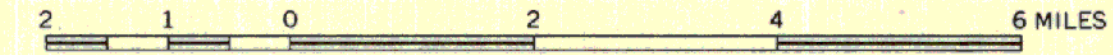
Theis, C. V., 1924, Geologic map of Hopkins County, Kentucky: Kentucky Geol. Survey ser. 6.

Base maps are county highway maps and adjacent county groups may not match

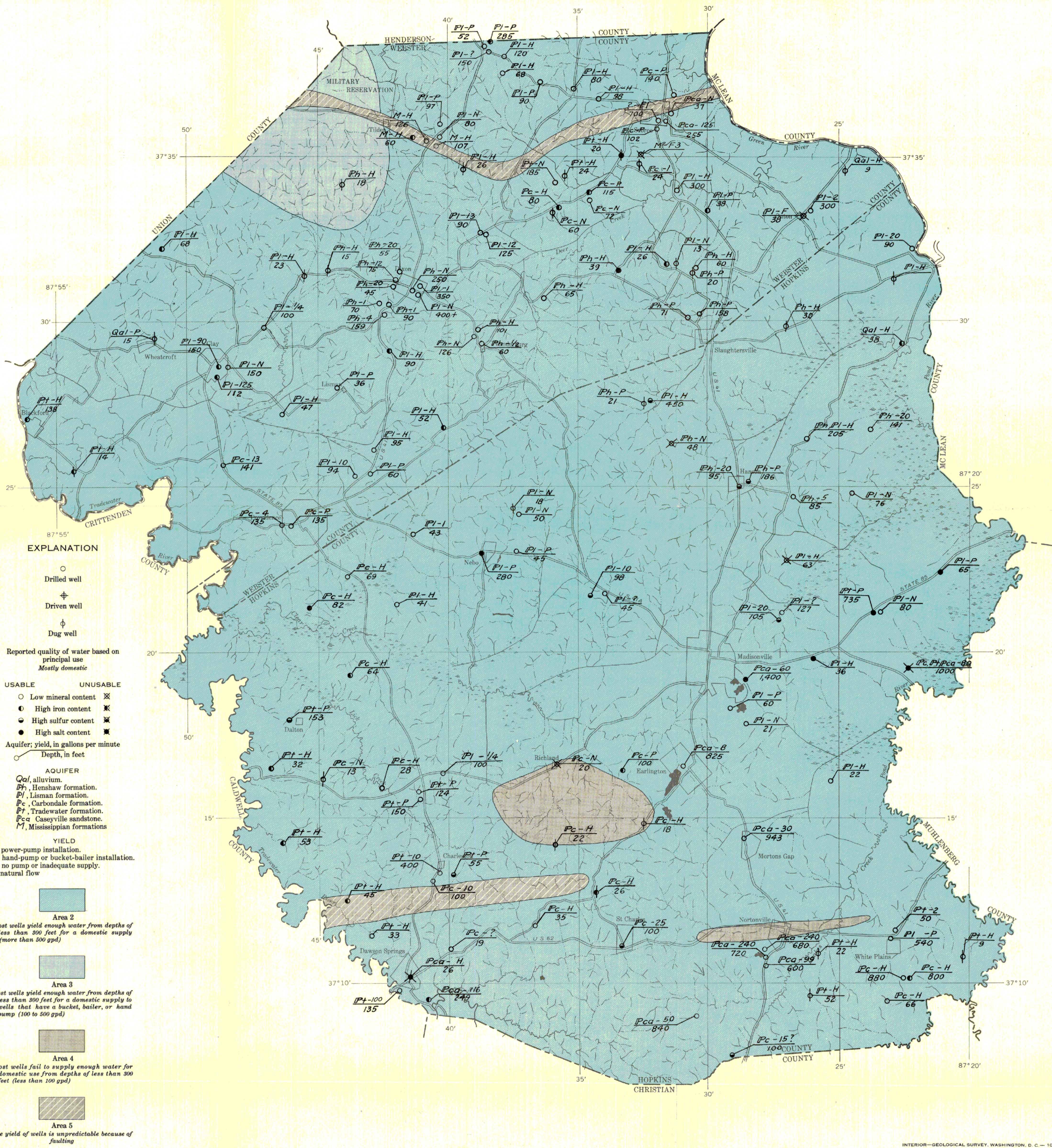
**GEOLOGIC MAP OF HOPKINS AND WEBSTER COUNTIES, KENTUCKY (COUNTY GROUP 30)**

By  
**B. W. Maxwell and R. W. Devaul**

SCALE 1:125 000



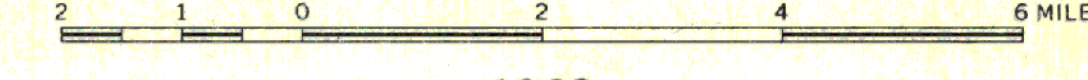
1962



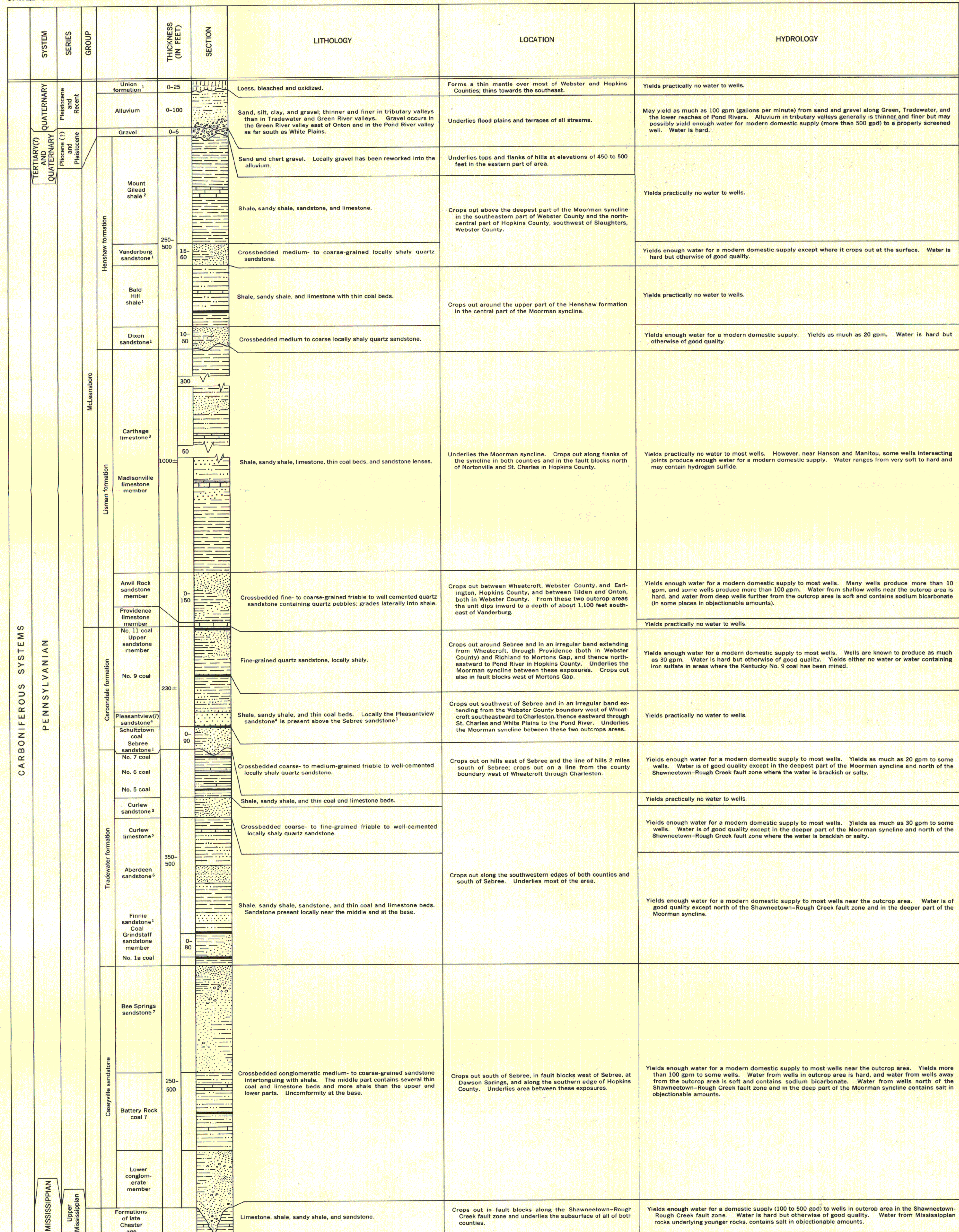
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<sup>1</sup> of Glenn (1912) <sup>2</sup> of Glenn (1922) <sup>3</sup> of Owen (1856) <sup>4</sup> of Wanless (1929) <sup>5</sup> as used by Wanless (1939) <sup>6</sup> of Crider (1915) <sup>7</sup> of Norwood (1876)

GENERALIZED COLUMNAR SECTION IN HOPKINS AND WEBSTER COUNTIES, KENTUCKY (COUNTY GROUP 30)

By  
B. W. Maxwell and R. W. Devaul  
1962