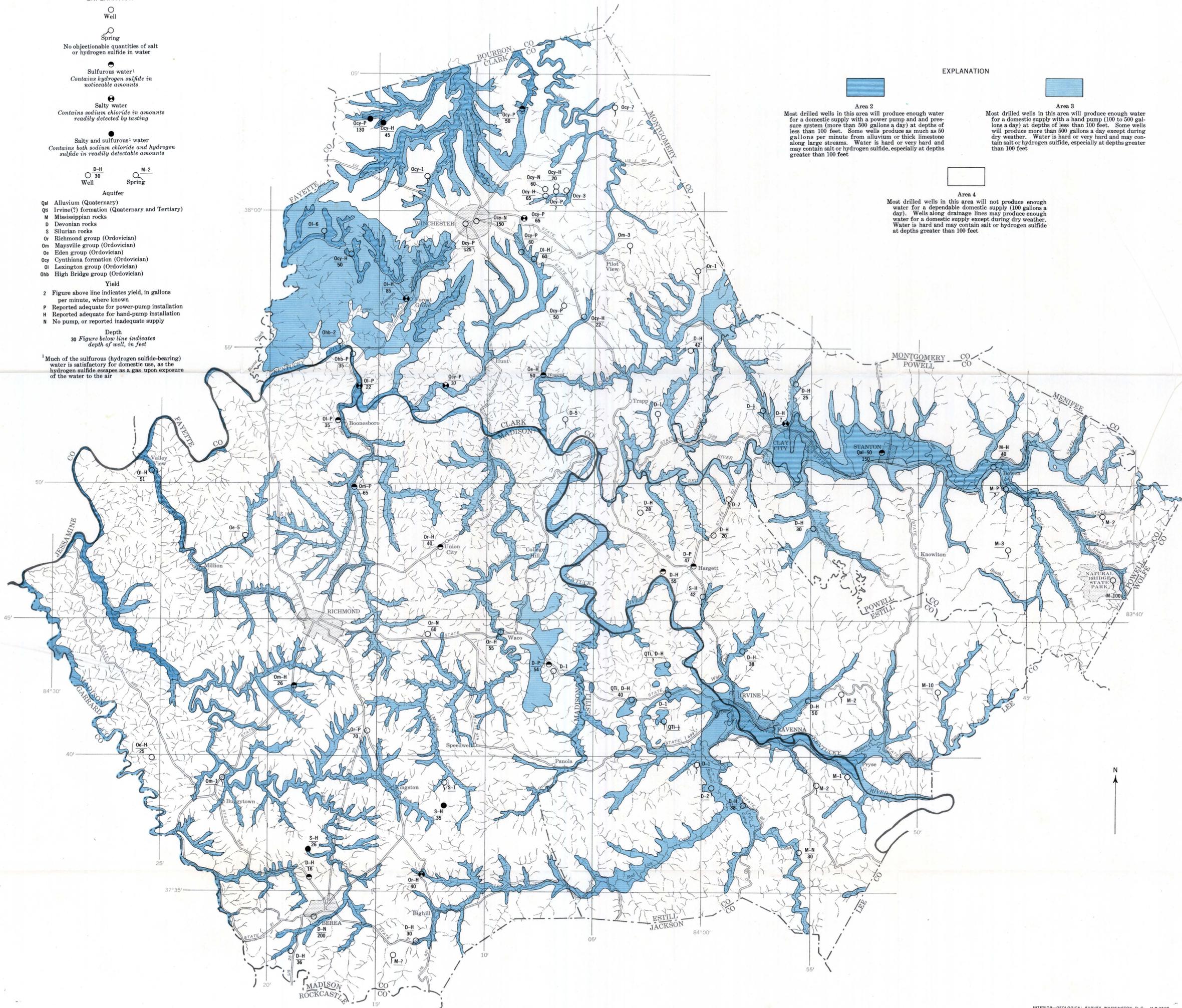


EXPLANATION

- Well
 - Spring
 - No objectionable quantities of salt or hydrogen sulfide in water
 - Sulferous water¹
Contains hydrogen sulfide in noticeable amounts
 - Salty water
Contains sodium chloride in amounts readily detected by tasting
 - Salty and sulferous¹ water
Contains both sodium chloride and hydrogen sulfide in readily detectable amounts
 - D-H 30 Well
 - M-2 Spring
- Aquifer**
- Qal Alluvium (Quaternary)
 - Qt Irvine(?) formation (Quaternary and Tertiary)
 - M Mississippian rocks
 - D Devonian rocks
 - S Silurian rocks
 - Or Richmond group (Ordovician)
 - Om Maysville group (Ordovician)
 - Oe Eden group (Ordovician)
 - Ocy Cynthia formation (Ordovician)
 - O1 Lexington group (Ordovician)
 - Ohb High Bridge group (Ordovician)
- Yield**
- 2 Figure above line indicates yield, in gallons per minute, where known
 - P Reported adequate for power-pump installation
 - H Reported adequate for hand-pump installation
 - N No pump, or reported inadequate supply
- Depth**
- 30 Figure below line indicates depth of well, in feet
- ¹ Much of the sulferous (hydrogen sulfide-bearing) water is satisfactory for domestic use, as the hydrogen sulfide escapes as a gas upon exposure of the water to the air

EXPLANATION

- Area 2
Most drilled wells in this area will produce enough water for a domestic supply with a power pump and and pressure system (more than 500 gallons a day) at depths of less than 100 feet. Some wells produce as much as 50 gallons per minute from alluvium or thick limestone along large streams. Water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
- Area 3
Most drilled wells in this area will produce enough water for a domestic supply with a hand pump (100 to 500 gallons a day) at depths of less than 100 feet. Some wells will produce more than 500 gallons a day except during dry weather. Water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
- Area 4
Most drilled wells in this area will not produce enough water for a dependable domestic supply (100 gallons a day). Wells along drainage lines may produce enough water for a domestic supply except during dry weather. Water is hard or very hard and may contain salt or hydrogen sulfide at depths greater than 100 feet.



AVAILABILITY OF GROUND WATER IN CLARK, ESTILL, MADISON, AND POWELL COUNTIES, KENTUCKY (COUNTY GROUP 19)

Scale 1:125 000
0 1 2 3 4 5 6 7 8 9 10 Miles

By
F. R. Hall and W. N. Palmquist, Jr.
1960