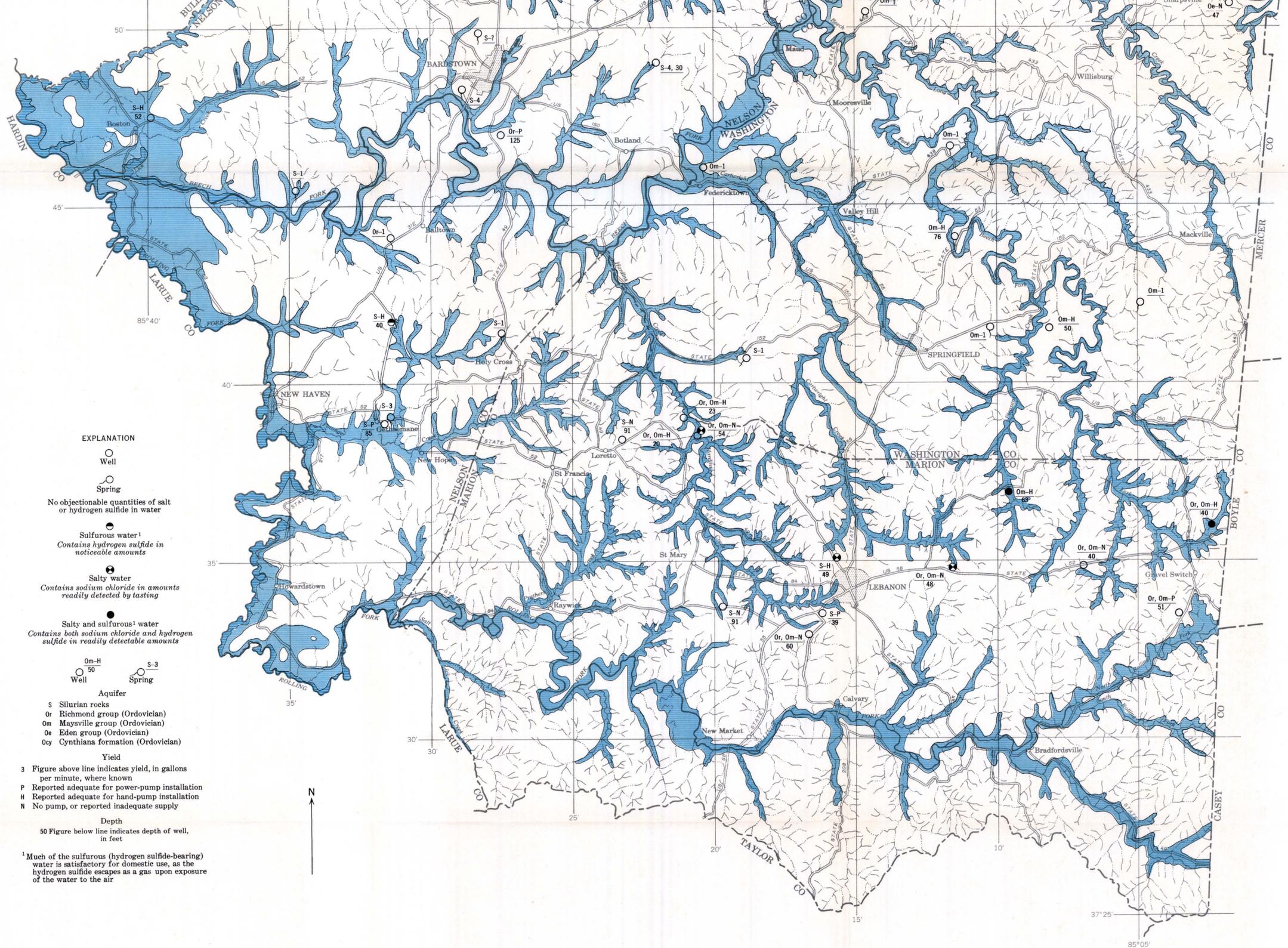


EXPLANATION

Area 2
Most drilled wells in this area will produce enough water for a domestic supply with a power pump and an pressure system (more than 500 gallons a day) at depths of less than 100 feet. Some wells produce several 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 and may contain salt or hydrogen sulfide at depths greater than 100 feet



EXPLANATION

Well

Spring

No objectionable quantities of salt or hydrogen sulfide in water

Sulfurous water¹
Contains hydrogen sulfide in noticeable amounts

Salty water
Contains sodium chloride in amounts readily detected by tasting

Salty and sulfurous¹ water
Contains both sodium chloride and hydrogen sulfide in readily detectable amounts

Om-H 50 Well

S-3 Spring

Aquifer

S Silurian rocks

Or Richmond group (Ordovician)

Om Maysville group (Ordovician)

Oe Eden group (Ordovician)

Ocy Cynthiana formation (Ordovician)

Yield

3 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

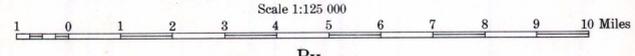
N No pump, or reported inadequate supply

Depth

50 Figure below line indicates depth of well, in feet

¹ Much of the sulfurous (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

AVAILABILITY OF GROUND WATER IN MARION, NELSON, AND WASHINGTON COUNTIES, KENTUCKY (COUNTY GROUP 21)



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