

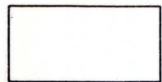
EXPLANATION



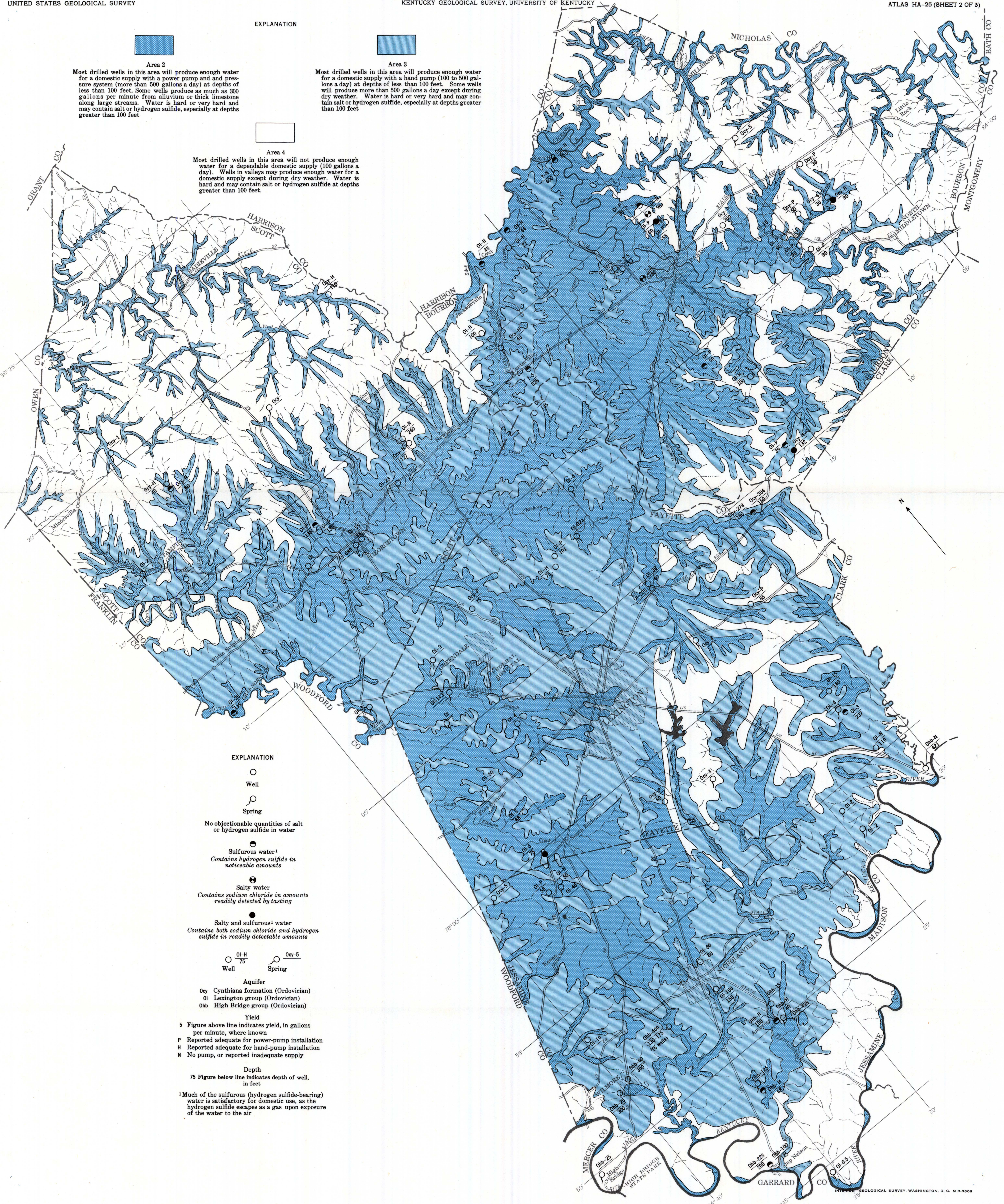
**Area 2**  
Most drilled wells in this area will produce enough water for a domestic supply with a power pump and pressure system (more than 500 gallons a day) at depths of less than 100 feet. Some wells produce as much as 300 gallons per minute from alluvium or thick limestone along large streams. 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 in valleys 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 water<sup>1</sup>

Contains hydrogen sulfide in noticeable amounts

Salty water

Contains sodium chloride in amounts readily detected by tasting

Salty and sulfurous<sup>1</sup> water

Contains both sodium chloride and hydrogen sulfide in readily detectable amounts



OI-H

75

Well



Ocy-5

Spring

Aquifer

Ocy Cynthiana formation (Ordovician)

OI Lexington group (Ordovician)

Olb High Bridge group (Ordovician)

Yield

5 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

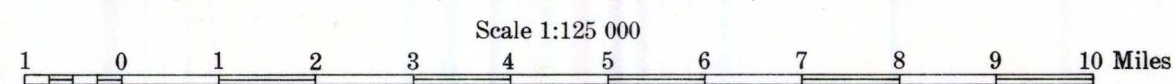
N No pump, or reported inadequate supply

Depth

75 Figure below line indicates depth of well, in feet

<sup>1</sup>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 BOURBON, FAYETTE, JESSAMINE, AND SCOTT COUNTIES, KENTUCKY (COUNTY GROUP 25)



Scale 1:125 000

By

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

1960