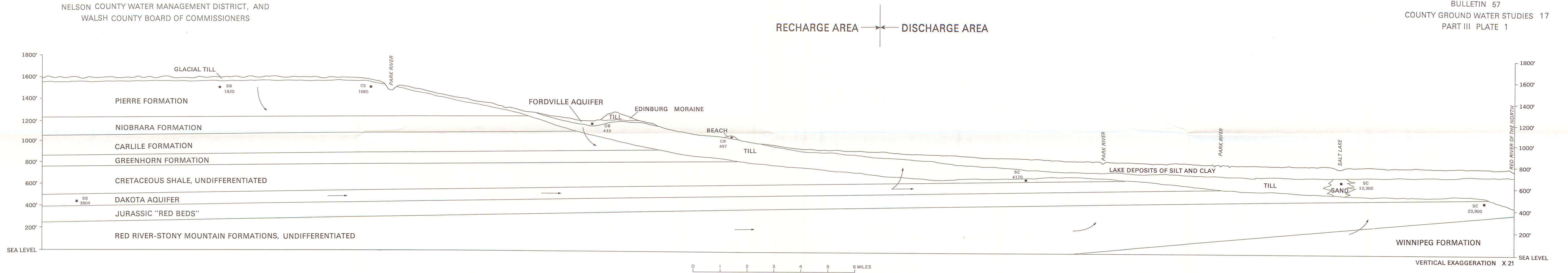


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 NELSON COUNTY WATER MANAGEMENT DISTRICT, AND  
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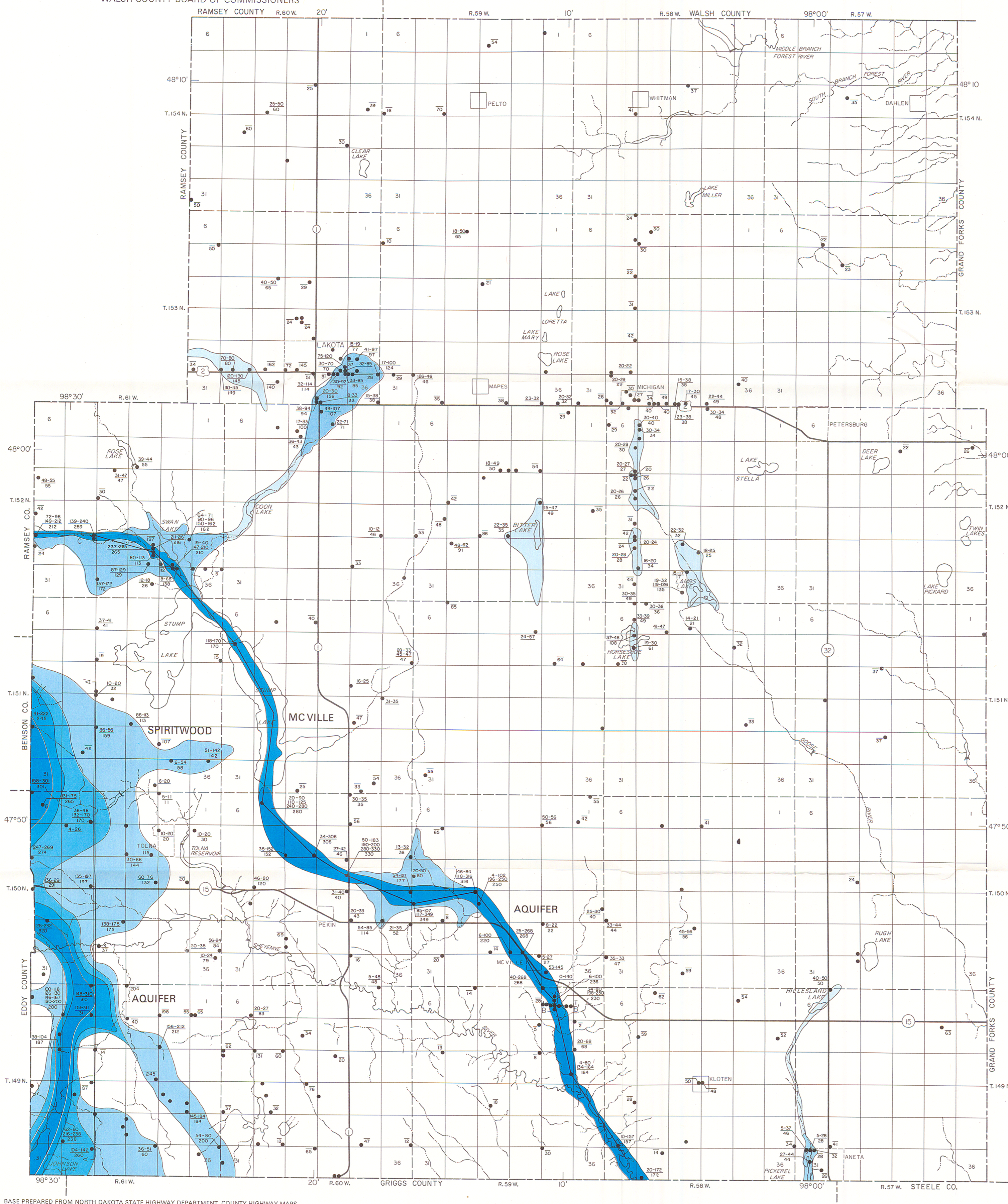
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 COUNTY GROUND WATER STUDIES 17  
 PART III PLATE 1



EXPLANATION

- Direction of ground-water movement
- SC 4170 Typical chemical analysis
- Letters indicate water type. Number is dissolved solids, in milligrams per liter*
- CB = calcium bicarbonate
- CS = calcium sulfate
- SB = sodium bicarbonate
- SC = sodium chloride
- SS = sodium sulfate

PLATE 1.—GENERALIZED HYDROGEOLOGIC SECTION ACROSS WALSH COUNTY SHOWING THE INFERRED REGIONAL GROUND-WATER FLOW SYSTEM AND GEOCHEMICAL RELATIONS

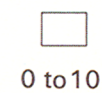


**EXPLANATION**

Potential well yields from glacial-drift aquifers, in gallons per minute

- More than 500
- 250 to 500
- 50 to 250
- 10 to 50
- 0 to 10

Glacial spillways and glacial features filled with stratified drift. Potential yields may exceed 10 gallons per minute



Potential yields from bedrock aquifers

1 to 5 gallons per minute generally available from Pierre aquifer. Moderate to large yields available locally from Dakota aquifer and deeper aquifers

Selected test-hole and well data

Control point

Upper numbers indicate aquifer interval, in feet below land surface. Lower number indicates depth to bedrock, in feet below land surface



Line of section

Sections shown on figures 10, 12, and plate 3

BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAPS

SCALE 1:126 720

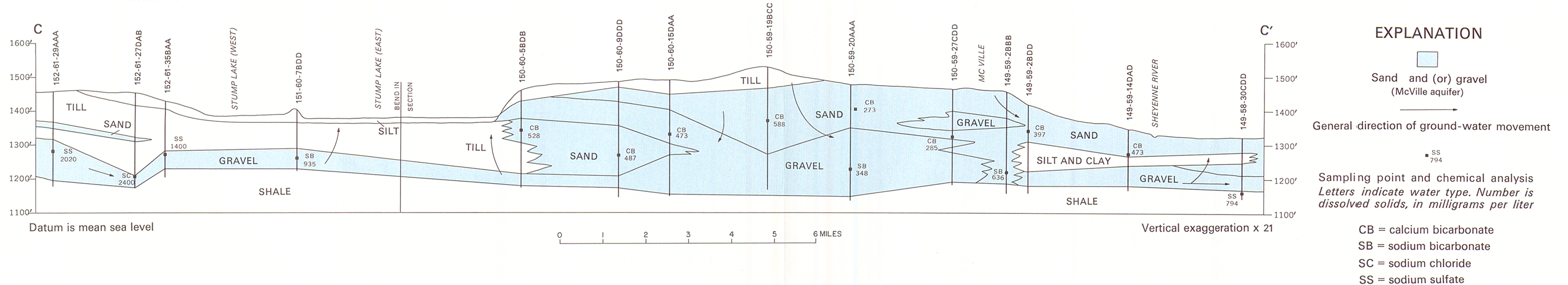
0 2 4 6 8 10 MILES

0 2 4 6 8 10 KILOMETERS

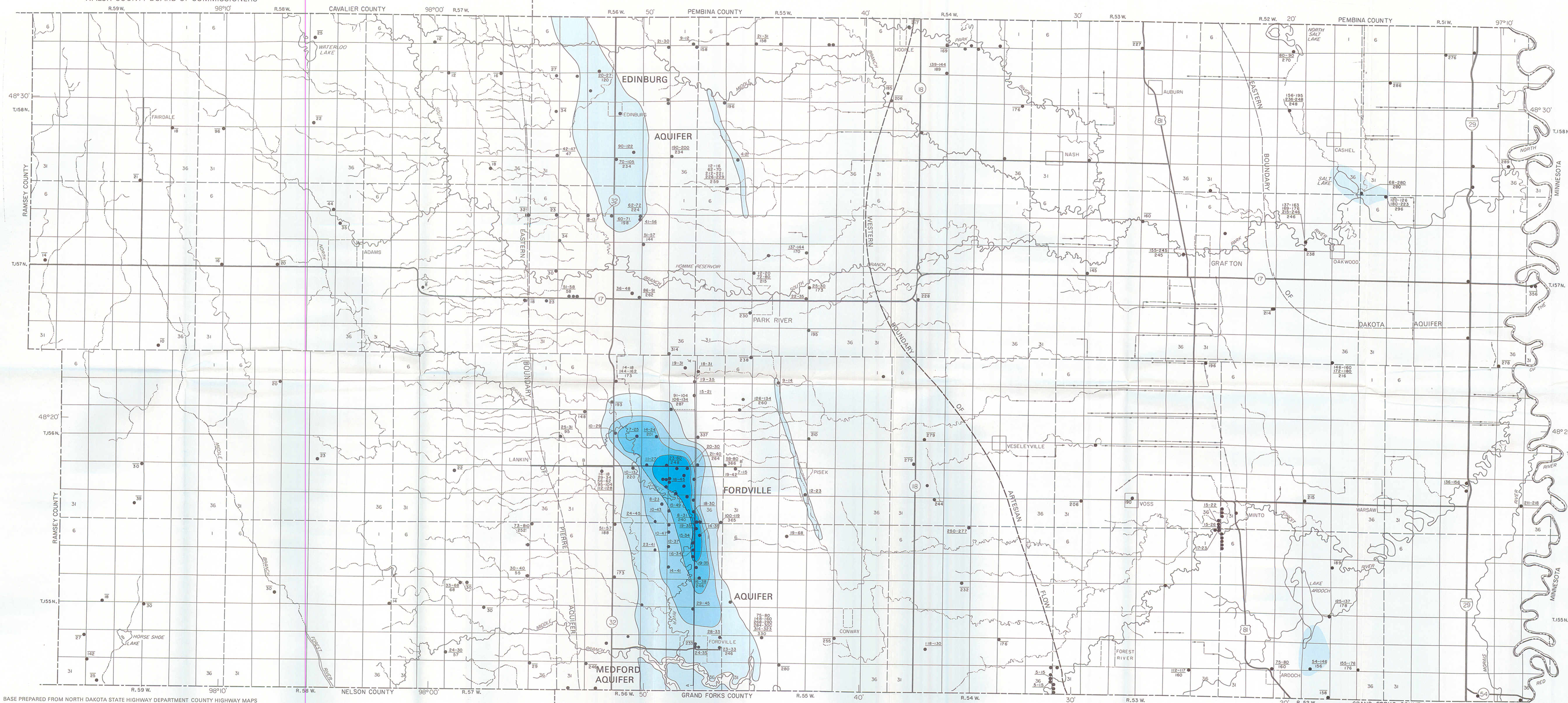
**PLATE 2.—MAP SHOWING AVAILABILITY OF GROUND WATER IN NELSON COUNTY, NORTH DAKOTA**

PREPARED BY THE UNITED STATES GEOLOGICAL SURVEY IN COOPERATION WITH THE  
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 NELSON COUNTY WATER MANAGEMENT DISTRICT, AND  
 WALSH COUNTY BOARD OF COMMISSIONERS

BULLETIN 57  
 COUNTY GROUND WATER STUDIES 17  
 PART III PLATE 3



**PLATE 3.—GENERALIZED HYDROGEOLOGIC SECTION ALONG THE AXIS OF THE MC VILE AQUIFER, NELSON COUNTY, NORTH DAKOTA**  
 (LOCATION OF SECTION SHOWN ON PLATE 2)



**EXPLANATION**

Potential well yields from glacial-drift aquifers, in gallons per minute

- More than 500
- 250 to 500
- 50 to 250
- 10 to 50
- 0 to 10

Potential yields from bedrock aquifers

- 1
- 2
- 3

1 to 5 gallons per minute generally available from Pierre aquifer (area 1). Moderate to large yields available locally from Dakota aquifer (areas 1 and 2) and deeper aquifers (areas 1, 2, and 3)

Selected test-hole and well data

Control point  
 Upper numbers indicate aquifer interval, in feet below land surface. Lower number indicates depth to bedrock, in feet below land surface

Line of section  
 Sections shown on figures 15 and 16

BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAPS

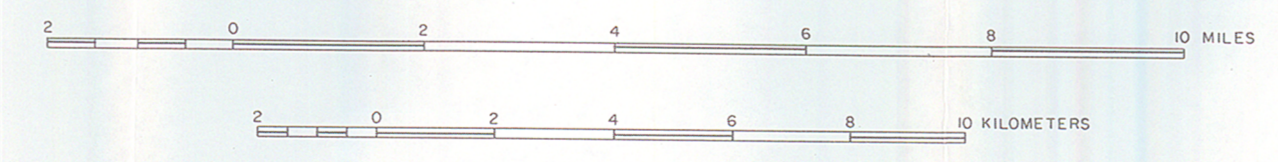


PLATE 4.—MAP SHOWING AVAILABILITY OF GROUND WATER IN WALSH COUNTY, NORTH DAKOTA