



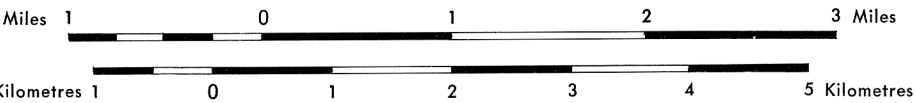
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

Figure 10

Resistivity and hydrological map illustrating zones within the aquifer
and its hydraulic characteristics, Winkler area, Manitoba

Scale 1: 63,360

(1 inch to 1 mile)



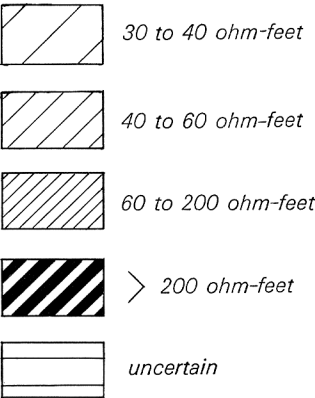
Pump test July 25 to 28, 1962; aquifer: sand and gravel; depth data: 131 to 157 feet;
grain size: > 4 mm in 50 per cent of material

LEGEND

Test hole by federal government 9 ●
Test hole by provincial government (Manitoba) 8 ○
Chemical analysis available (see text) 2057 A
Total solids (T. S.)

HYDRAULIC CHARACTERISTICS OF THE AQUIFER AT PUMP TEST SITE

Transmissibility 704,000 gpd/ft.
Storage coefficient 0.28×10^{-3}
Permeability 3,868 gpd/ft²
Porosity 3.4 per cent
Gradient 1.14 ft/mile
Velocity 0.39 ft/day or 142 ft/year
Drawdown 1.89 ft (after 1 year), 2.20 ft. (after 100 years)
Quantity 416 Igpm
Thickness 182 ft.
Specific capacity 260
Specific yield 0.285×10^{-3}



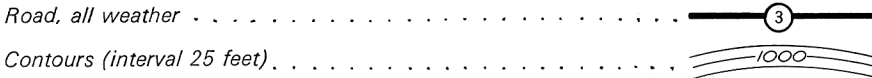
Equi resistivity contour in ohm feet 30

Aquifer data by J. E. Charron, 1962

Resistivity survey by J. E. Wyder

To accompany Paper 63-43 by J. E. Charron

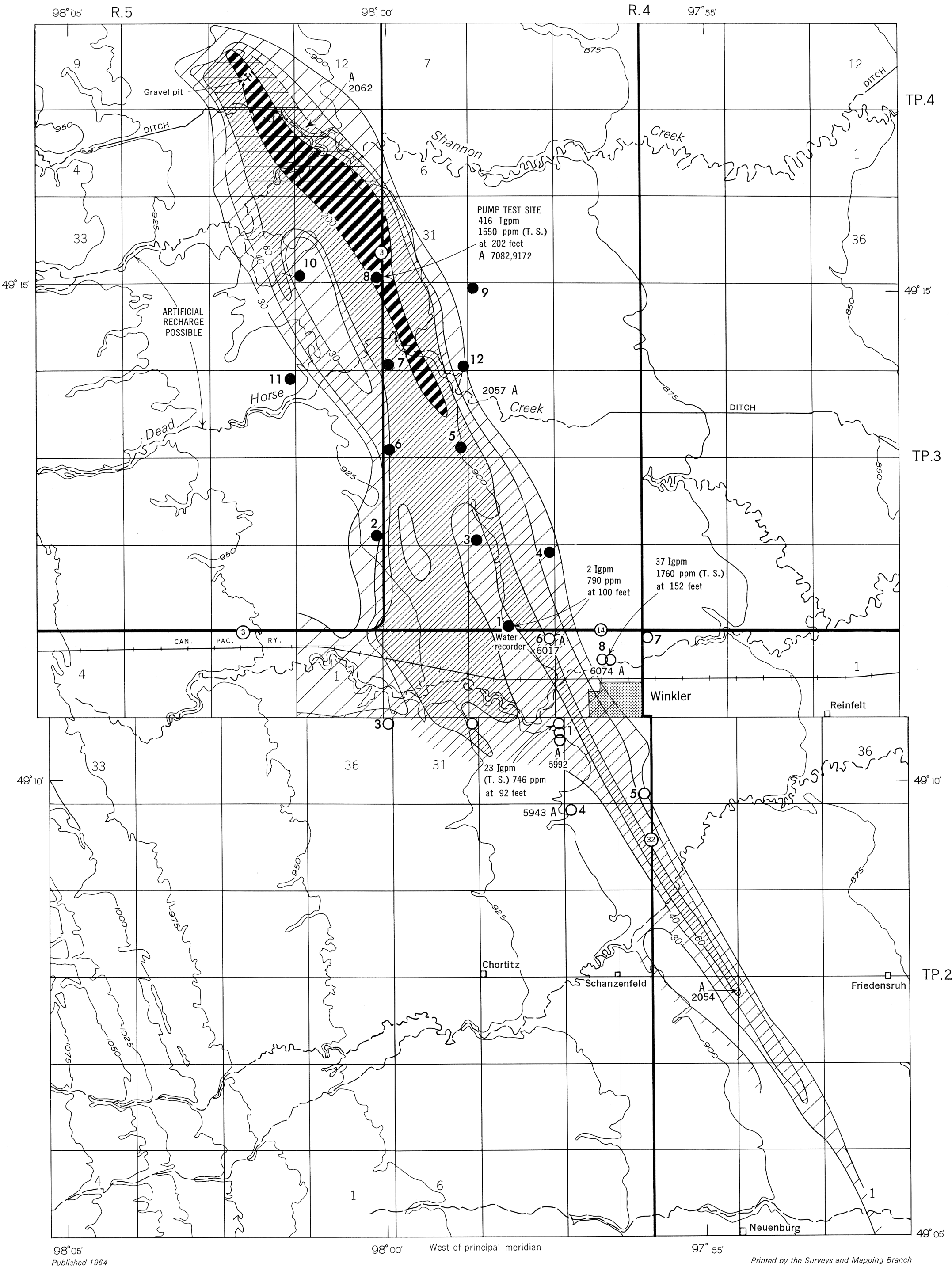
Geological cartography by the Geological Survey of Canada, 1964



Base-map cartography by the Geological Survey of Canada from maps
published by the Surveys and Mapping Branch 1958, 1959, 1960

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Figure 10