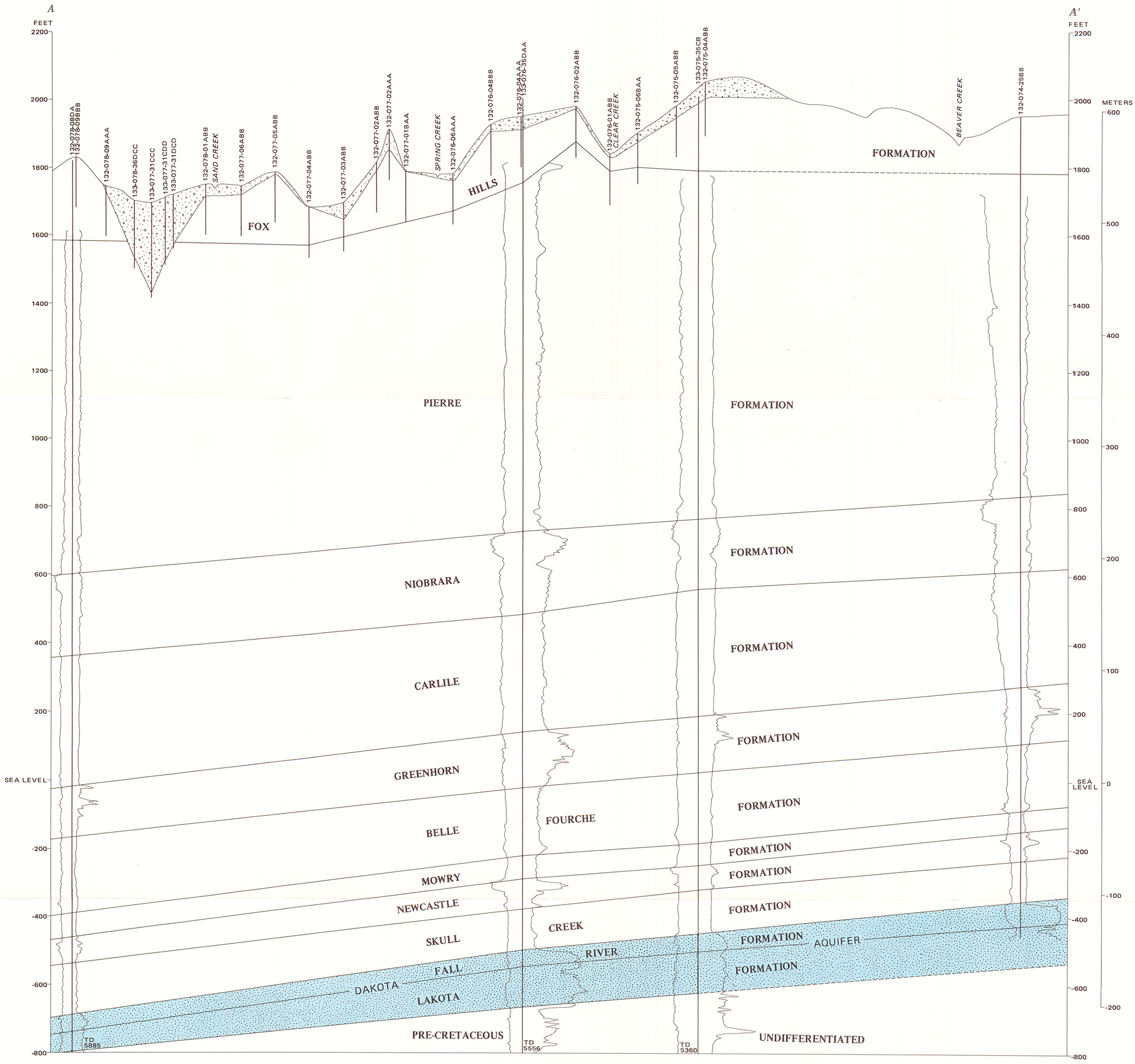
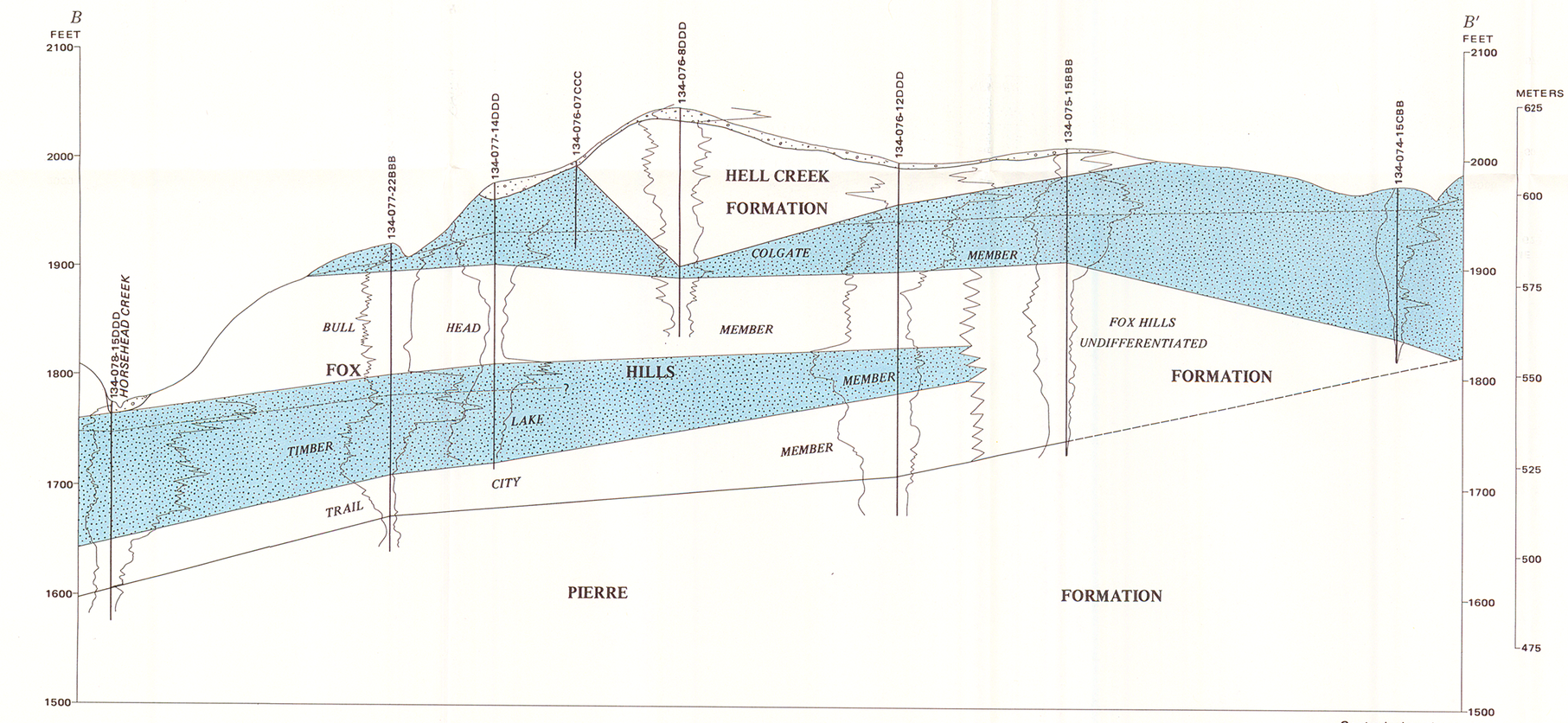
PREPARED BY THE UNITED STATES GEOLOGICAL SURVEY IN COOPERATION WITH THE NORTH DAKOTA STATE WATER COMMISSION, NORTH DAKOTA GEOLOGICAL SURVEY, AND EMMONS COUNTY BOARD OF COMMISSIONERS





EXPLANATION

- GLACIAL DRIFT UNDIFFERENTIATED
- SAND OR SANDSTONE
- SILTSTONE, CLAYSTONE, OR SHALE
- FORMATION OR MEMBER BOUNDARY—Dashed where approximately located
- AQUIFER
- WATER LEVEL
- ELECTRIC LOG (SPONTANEOUS POTENTIAL, RESISTIVITY)
- A — A′ TRACE OF SECTIONS SHOWN ON PLATE 2

Geohydrology by C. A. Armstrong, 1976

0 1 2 3 4 5 6 7 8 9 10 MILES
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 KILOMETERS

VERTICAL SCALE GREATLY EXAGGERATED
DATUM IS MEAN SEA LEVEL

PLATE 1.—GEOHYDROLOGIC SECTIONS, EMMONS COUNTY, NORTH DAKOTA

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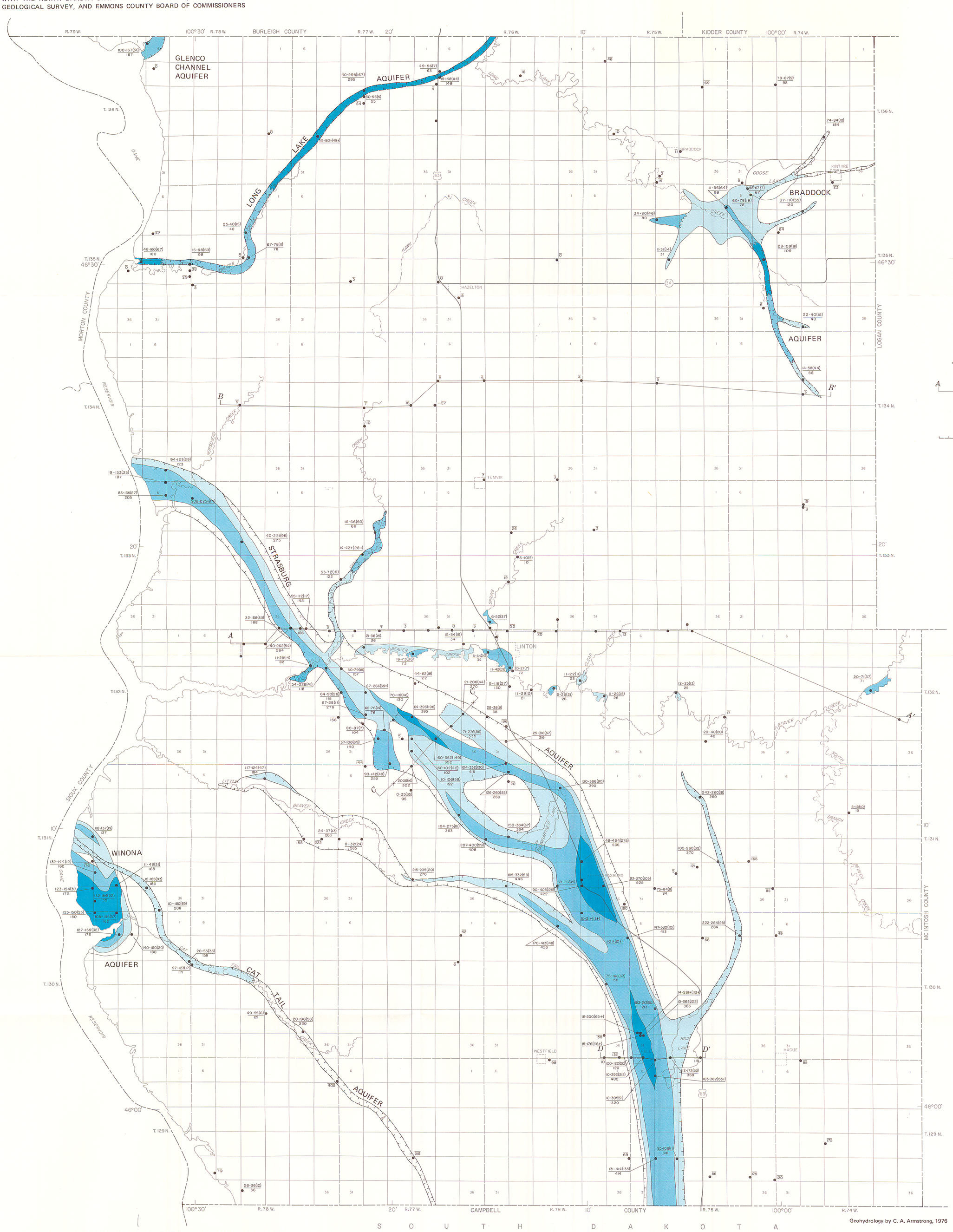

BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAPS

Geohydrology by C. A. Armstrong, 1976

EXPLANATION

POTENTIAL WELL YIELDS, IN GALLONS PER MINUTE (LITERS PER SECOND)

- 500-1000 (32-63)
- 200-500 (13-32)
- 50-200 (3.2-13)
- 0-50 (0-3.2)

SELECTED TEST-HOLE AND WELL DATA

22-40(18) / 40 TEST HOLE OR WELL—Upper numbers are top and base of aquifer interval. Number in parentheses is aggregate thickness of saturated sand and gravel. Lenses less than 5 feet (1.5 meters) thick not included. Lower number, if present, is top of consolidated rock, in feet below land surface

APPROXIMATE LOCATION OF GROUND-WATER DIVIDE

A—A′ TRACE OF SECTION

X OUTCROP USED AS CONTROL POINT

LOCATION OF BURIED VALLEY

PLATE 2.—MAP SHOWING AVAILABILITY OF GROUND WATER FROM THE GLACIAL-DRIFT AQUIFERS IN EMMONS COUNTY, NORTH DAKOTA