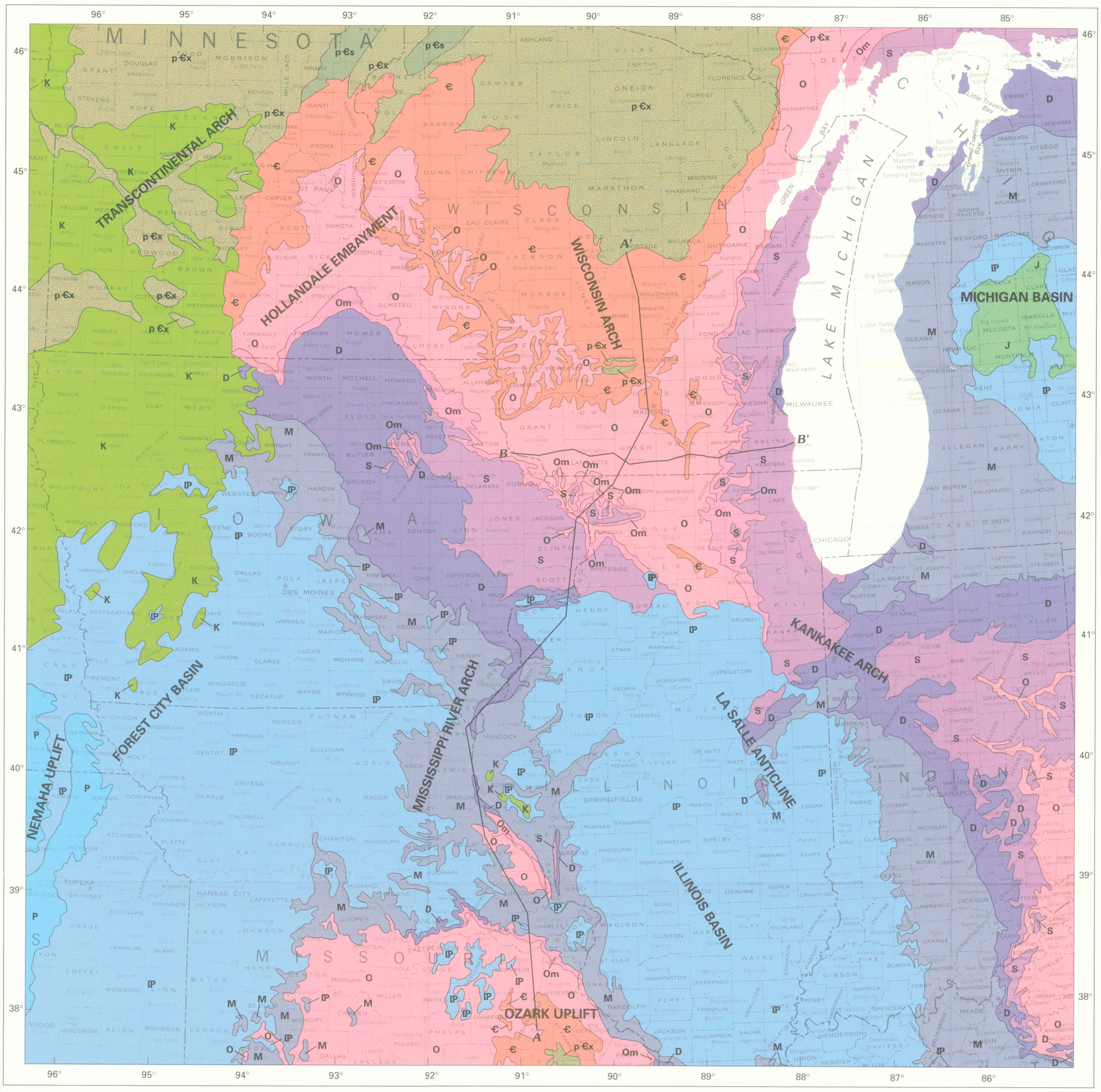


Base from U.S. Geological Survey
U.S. base map, 1972

SCALE 1:2,500,000

50 0 50 100 150 200 250 MILES

50 0 50 100 150 200 250 300 350 KILOMETRES

Sources for geology: Illinois, Willman and others (1967); Iowa, Iowa Geological Survey (1969); Michigan, Western Michigan University (1981b); Minnesota, Morey and others (1982); Missouri, Missouri Geological Survey (1979); Wisconsin, Mudrey and others (1982); other areas, King and Beikman (1974)

EXPLANATION
DESCRIPTION OF UNITS

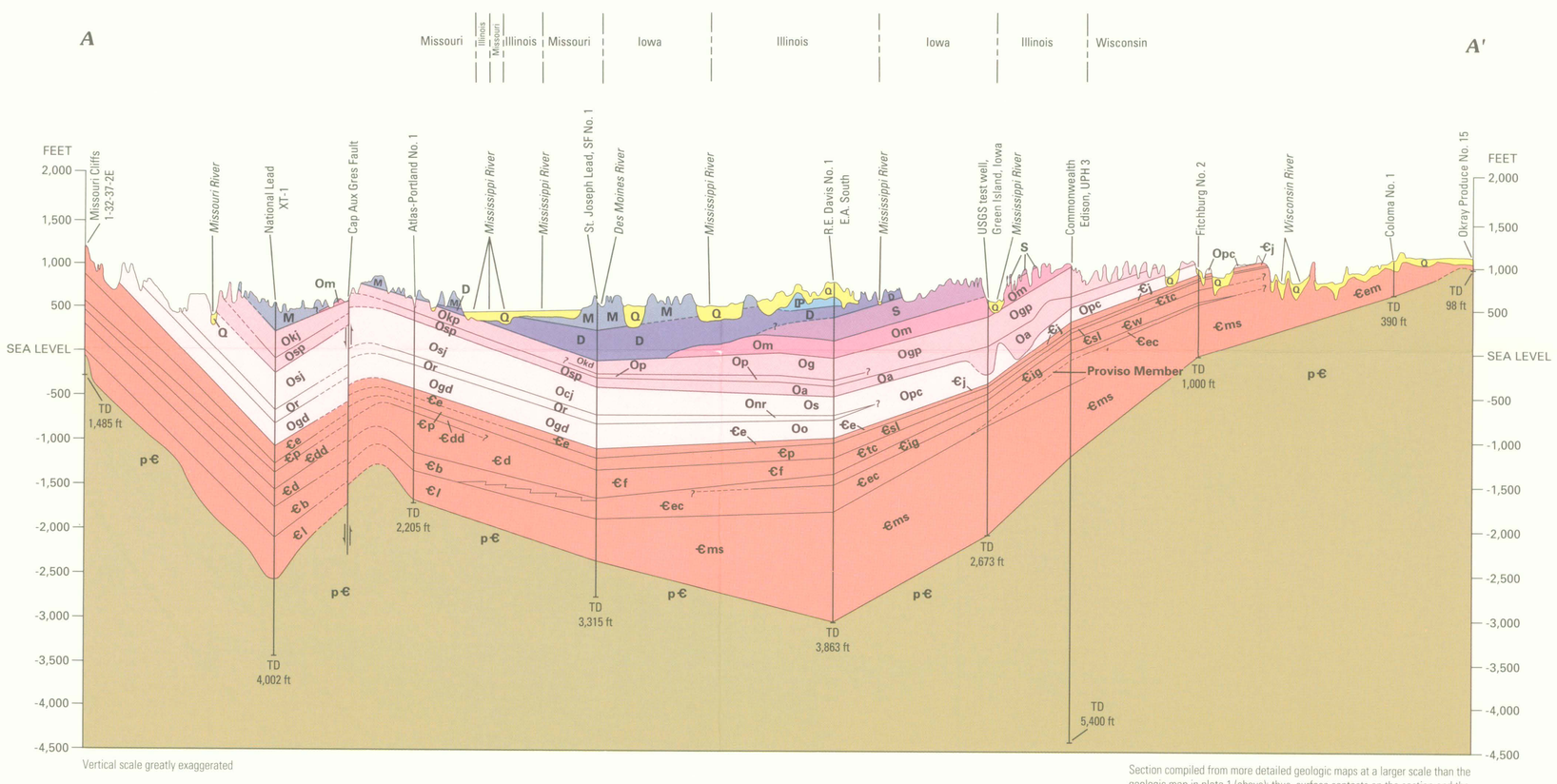
Q	Pleistocene deposits
K	Cretaceous rocks
J	Jurassic rocks
P	Permian rocks
IP	Pennsylvanian rocks
M	Mississippian rocks
D	Devonian rocks
S	Silurian rocks
Om	Maquoketa Shale
O	Ordovician rocks — Older than Maquoketa Shale, undivided
Okj	Kimmswick, Decorah, and Plattin Formations and Joachim Dolomite
Okp	Kimmswick, Decorah, and Plattin Formations
Okd	Kimmswick and Decorah Formations
Og	Galena Group — Consists of Dubuque, Wise Lake, and Dunleith Formations and Decorah Formation in Iowa or Guttenberg and Spechts Ferry Formations in Illinois
Op	Platteville Group — Consists of Quimbys Mill, Nachusa, Grand Detour, Mifflin, and Pecatonica Formations in Illinois or Platteville Formation in Iowa
Ogp	Galena Dolomite, Decorah and Platteville Formations
Osp	St. Peter Sandstone
Oa	Ancell Group — Consists of Glenwood Formation, St. Peter Sandstone in Iowa, Illinois, and Wisconsin
Osj	Smithville Formation; Powell, Cotter, and Jefferson City Dolomites
Ocj	Cotter and Jefferson City Dolomites
Or	Roubidoux Formation
Ogd	Gasconade Dolomite
Opc	Prairie du Chien Group — Consists of Shakopee, New Richmond, and Oneota rock units of various rank in Wisconsin, Iowa, and Illinois, plus the Gunter Sandstone in Illinois
Os	Shakopee Dolomite
Onr	New Richmond Sandstone or Member
Oo	Oneota Dolomite
Є	Cambrian rocks, undivided
Єe	Eminence Dolomite
Єj	Jordan Sandstone
Єp	Potosi Dolomite
Єsl	St. Lawrence Formation
Єdd	Derby-Doerun Dolomite
Єf	Franconia Formation
Єtc	Tunnel City Group — Consists of Lone Rock and Mazomanie Formations in Wisconsin and Iowa
Єd	Davis Formation
Єb	Bonneterre Formation
Єl	Lamotte Sandstone
Єem	Elk Mound Group, undifferentiated — Where differentiated consists of Ironton and Galesville Sandstone Members of the Wonewoc Sandstone, Eau Claire Formation, Mount Simon Sandstone in Wisconsin and Iowa
Єig	Ironton and Galesville Sandstones
Єw	Wonewoc Sandstone in Iowa and Wisconsin
Єec	Eau Claire Formation
Єms	Mount Simon Sandstone
p€	Precambrian rocks, undivided
p€s	Precambrian sandstone
p€x	Precambrian crystalline rocks

CONTACT — Dashed where approximate; queried where unknown

FAULT — Arrows indicate relative vertical movement

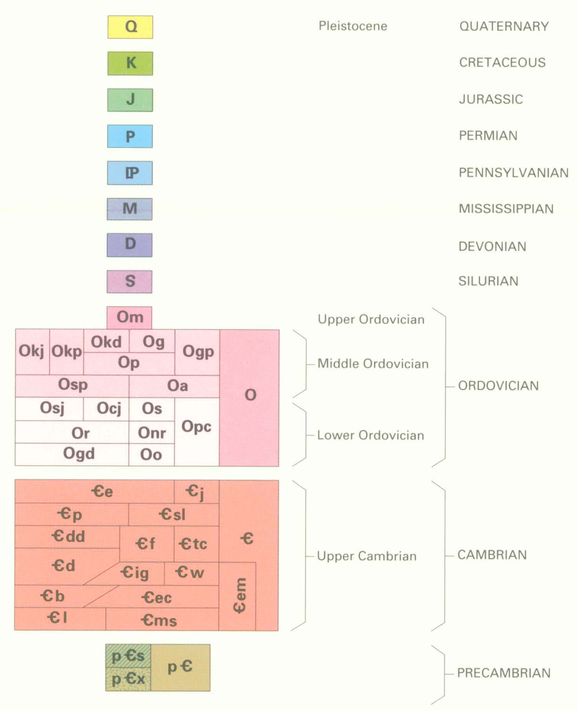
LINE OF SECTION — Section *A–A'* shown in plate 1, section *B–B'* shown in figure 20

TOTAL DEPTH — In feet (TD 4002 ft)



Section compiled from more detailed geologic maps at a larger scale than the geologic map in plate 1 (above); thus, surface contacts on the section and the map are not necessarily coincident

CORRELATION OF GEOLOGIC UNITS



Young, H.L., 1992, Hydrogeology of the Cambrian-Ordovician aquifer system in the northern Midwest, United States: U.S. Geological Survey Professional Paper 1405-B

MAP SHOWING GENERALIZED BEDROCK GEOLOGY OF THE NORTHERN MIDWEST AND GEOLOGIC SECTION FROM THE OZARK UPLIFT TO THE WISCONSIN ARCH

By
H.L. Young
1992