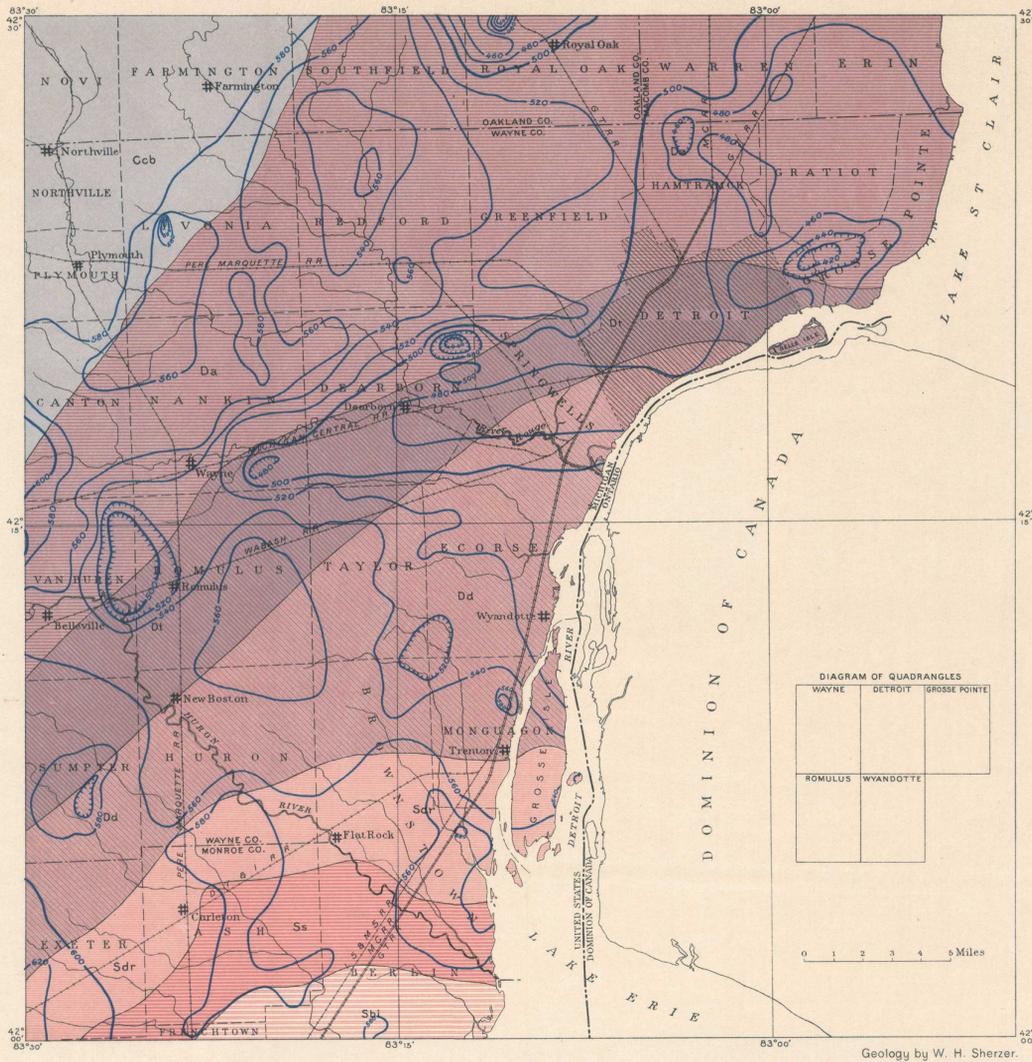


BEDROCK GEOLOGY



LEGEND

Approximate outcrop of bedrock formations beneath the surficial deposits

Mississippian series

Ccb
Coldwater shale and underlying Berea sandstone
(light-colored shales, black near base, and coarse gray sandstone at base)

Upper Devonian

Da
Antrim shale
(black bituminous shale)

Middle Devonian

D+
Traverse formation
(calcareous shale and thin limestones)

Dd
Dundee limestone
(bituminous limestone, in part sandy and cherty)
UNCONFORMITY?

Monroe group

Sdr
Detroit River dolomite
(oolitic, sandy dolomite and thin pure limestone)

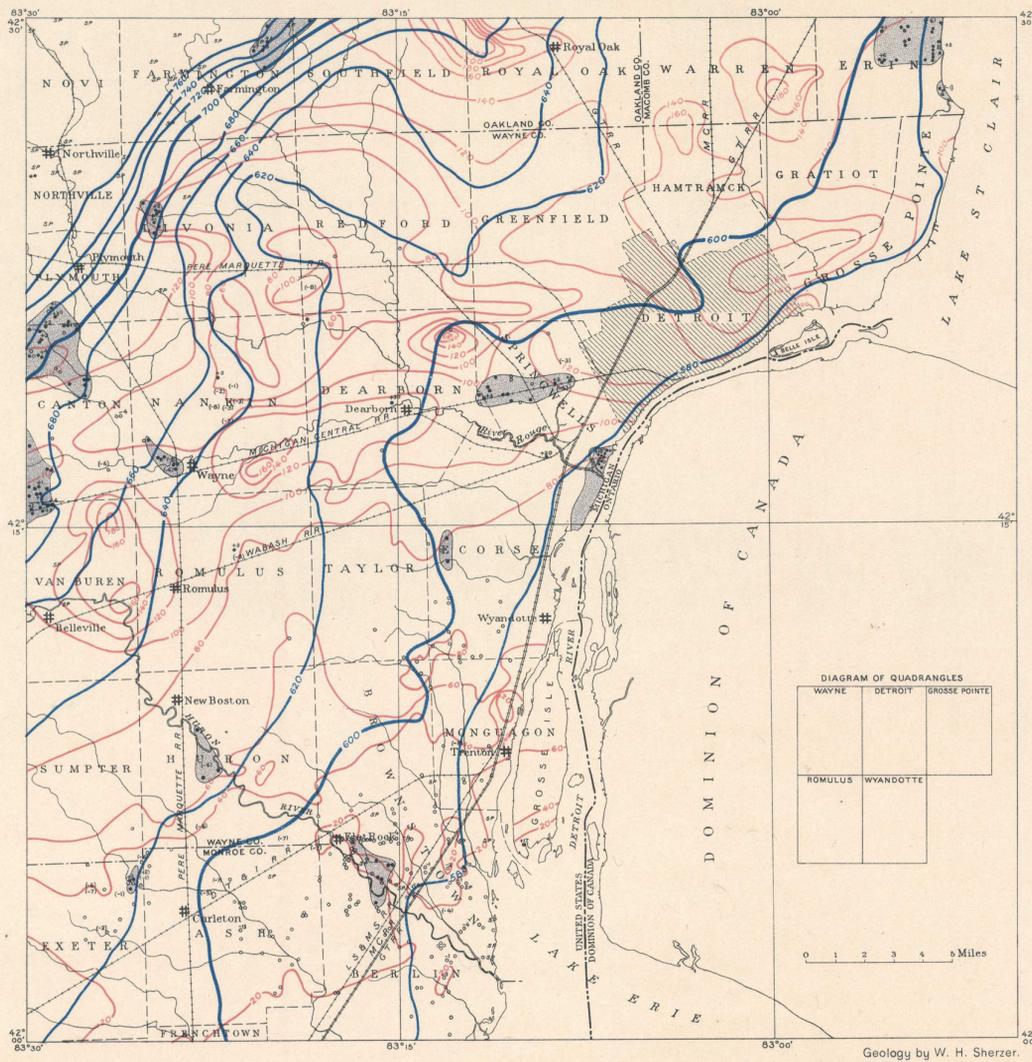
Ss
Sylvania sandstone
(pure white sandstone, crumbling to sand)

Sbi
Bass Islands dolomite
(dolomite, in part oolitic, and calcareous shale; contains gypsum and salt deposits)

500
Approximate altitude of bedrock surface above sea level
(contour interval, 20 feet; fringed lines represent depressions)

Note: Quarries, gas wells, and other economic data are given on the Areal Geology maps

ARTESIAN WATER



LEGEND

Area in which flowing wells are known to occur

Thickness of surficial deposits which overlie bedrock in area southeast of Defiance moraine
(interval between lines represents difference of 20 feet in thickness)

Artesian head
(approximate elevation above sea level to which artesian water will rise in wells in area southeast of Defiance moraine. Contour interval represents difference of 20 feet in head)

Flowing wells
(figures show approximate height above the surface to which water will rise)

Pump wells that formerly flowed
(figures show approximate depth below the surface to which water will rise)

Approximate depth below the surface to which water will rise in regions which formerly yielded flowing wells
(determined from wells that have never flowed)

Springs

Geology by W. H. Sherzer.

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