

| SYSTEM     | SERIES                | GROUP OR FORMATION AND MEMBERS | DESCRIPTION   | GENERAL THICKNESS (feet)   |         |
|------------|-----------------------|--------------------------------|---|--|---------|
| ORDOVICIAN | UPPER                 | Maquoketa Shale                | Shale, blue or gray, and dolomite, gray, thin-bedded<br>Weathers to a clayey soil Phosphatic depauperate fossils occur in thin layer near base<br>Underlies small area in northwest corner of Belmont quadrangle  | > 40   |         |
|            | MIDDLE                | Galena Dolomite                | Noncherty unit  | Dolomite, buff to grayish-orange, medium- to coarse-grained, fossiliferous, with thin yellowish shale or clay patches  | 115-120 |
|            |                       |                                | Cherty unit   | Dolomite, buff to grayish-orange, medium- to coarse-grained, fossiliferous, with numerous discontinuous layers about 2 to 6 inches thick of white chert nodules Top of "cherty unit" is at top of uppermost widespread chert layer, base of unit is about 10 feet below lowermost widespread chert layer Lowest consistent occurrence of <i>Receptaculites oweni</i> is about 20 feet above base of unit Limestone occurs locally in lower part of formation | 105     |
|            |                       | Decorah Formation              | Guttenberg Limestone Member   | Dolomite, gray to buff or grayish-orange, fossiliferous, or limestone with patches or thin partings of green clay or shale Lower part locally may include thin coquinooid limestone layers   | 21±     |
|            |                       |                                | Ion Dolomite Member   | Limestone or dolomite, light-buff or light-gray to brown, in thin wavy beds Locally limestone beds are thinned and consist of brown shale that contains hydrocarbons, called oil rock in the district  | 30-35   |
|            |                       |                                | Limestone Member  | Shale or clay, green, and limestone, light-gray to purplish-brown, fine-grained to aphanitic, weathers to a chalky white Small pebble- or granule-size phosphatic nodules occur sparsely   | 12±     |
|            | Platteville Formation | Quimbys Mill Limestone Member  | Limestone, purplish-brown, aphanitic, or dolomite, brownish-gray to buff Limestone has thin brown shaly partings at or near base Breaks with a conchoidal fracture and a ringing sound, called glass rock in the district Locally fossiliferous   | 3.5-17   |         |
|            |                       | Spechts Ferry Shale Member     | Dolomite, medium- to light-gray, fine-grained, or limestone, very fine grained to aphanitic in upper part Limestone or dolomite, light-gray, thin-bedded and nodular in lower part Fossiliferous  | 30±  |         |
|            |                       | McGregor Limestone Member      | Dolomite, buff to pale-gray, very fine grained to medium-grained, fossiliferous Weathers to light yellowish brown Quartz sand and small phosphatic nodules occur in the lower 2 feet  | 20±  |         |
|            |                       | Pecatonica Dolomite Member     | Shale or clay, green, sandy Generally only a thin parting, but about 9 feet thick locally   | < 1  |         |
| LOWER      | St. Peter Sandstone   | Glenwood Shale Member          | Sandstone, white or pale-yellowish-white, weakly cemented, crossbedded, generally consists of more than 90 percent quartz The rock is very porous and permeable and is a good aquifer Thickness variable A layer about 1 foot thick is cemented by iron sulfides and secondary iron oxides, and possibly by iron sulfate about 4 feet below the top of the formation No fossils were found in this unit in the area | 55-340   |         |
|            |                       | (UNCONFORMITY)                 |   |  |         |
| CAMBRIAN   | UPPER                 | Prairie du Chien Group         | Dolomite, buff and pink, cherty dolomite, siliceous sandstone, and red-green shale Thickness probably very variable owing to irregular erosion of top unit  | 158±   |         |
|            |                       | Trempealeau Formation          | Sandstone and shale, red-green Tentatively assigned to Jordan Sandstone Member  | 15±  |         |

COLUMNAR SECTION OF ROCK UNITS EXPOSED  
OR PENETRATED BY DRILL HOLES IN THE  
BELMONT AND CALAMINE QUADRANGLES  
LAFAYETTE COUNTY, WISCONSIN