GEOLOGIC MAP OF THE FOREMAN QUADRANGLE, LITTLE RIVER COUNTY, ARKANSAS

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Description of Map Units

UNCONFORMITY

Upper Tertiary

Lower Tertiary

Quaternary

CENOZOIC

ALLUVIUM

UNCONFORMITY

Marble Creek (Oligocene) - The Marble Creek unit is a uniform layer of calcareous material that rests upon the underlying marine deposits of the Ozan Formation. The unit is approximately 50 feet thick and dips at an average angle of 80 feet per mile to the southwest. Notable fossils include Gryphaea, Ostrea, and various other mollusk species. The Marble Creek unit is important for its fossil content and serves as a marker horizon in the geologic column.

Brownstown Marl (Upper Cretaceous) - The Brownstown Marl is a hard, massive, thick layer of calcareous material that rests unconformably on the Ozan Formation. The unit is about 100 feet thick and dips to the southeast in this quadrangle. The Marlbrook Marl was deposited in a nearshore marine environment and rests unconformably on the Ozan Formation.

Marlbrook Marl (Upper Cretaceous) - The Marlbrook Marl is a uniform chalky material that rests upon the underlying marine deposits of the Ozan Formation. The unit is about 80 feet thick and dips approximately 80 feet per mile to the southeast. Noteable fossils are the oyster species and Gryphaea. Notable features occurring in this unit are the sandyglauconitic marl, known as the Buckrange Sand Lentil, has a hard, massive layer of calcareous material, and is about 15 feet thick. Glauconitic marl is a hard, massive, thick layer of calcareous material that rests unconformably on the Brownstown Marl. The unit was deposited in a nearshore marine environment and rests conformably on the Marlbrook Marl.

Ozan Formation (Upper Cretaceous) - The Ozan Formation consists of sandy, chalky material and a sandy, calcareous material. The unit is deposited in a nearshore marine environment and rests unconformably on the Underwood Beds. A shallow to minor stream called the Rough River flows through the area. The unit is about 100 feet thick and rests on the underlying deposits. A shallow to minor stream called the Rough River flows through the area. The unit is about 100 feet thick and rests on the underlying deposits. Notable features occurring in this unit are the sandyglauconitic marl, known as the Buckrange Sand Lentil, has a hard, massive layer of calcareous material, and is about 15 feet thick. Glauconitic marl is a hard, massive, thick layer of calcareous material that rests unconformably on the Brownstown Marl. The unit was deposited in a nearshore marine environment and rests conformably on the Marlbrook Marl.

Reservoirs Bed (Oligocene) - The Reservoirs Bed consists of thin layers of calcareous material. The unit is about 80 feet thick and rests upon the underlying marine deposits of the Ozan Formation. The unit was deposited in a nearshore marine environment and rests unconformably on the Reservoirs Bed.

Contact

Ozone (Oligocene) - Ozone is a uniform layer of calcareous material that rests upon the underlying marine deposits of the Ozan Formation. The unit is about 80 feet thick and rests upon the underlying marine deposits of the Ozan Formation. The unit was deposited in a nearshore marine environment and rests unconformably on the Reservoirs Bed.

Symbols

Contact

Gypsum Pit

Coal Mine

References


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