Geologic Units
Cenozoic

Unrelated alluvium — Unrelated alluvium that typically is less than 250-ft-wide depression located between the Massey Creek Channel and the confluence of the two streams. This area contains a series of paleo-water courses that are indicative of the mass wasting occurrence. The alluvium includes pebbles, cobbles, and boulders of gray, black, brown, and red colors. It surrounds the confluence and is filled with weathered rocks and boulders of varying sizes. The alluvium is a continuation of the stream channel and is highly variable in thickness, with some areas being up to 250 ft wide.

Cretaceous — Cretaceous sedimentary rocks are found within the study area, with the highest occurrence being in the middle section of the area. These rocks consist of sandstones, siltstones, and mudstones that were deposited in a shallow marine environment. The sedimentary rocks are characterized by their fine-grained texture and contain fossils such as bivalves, brachiopods, and ammonites. The Cretaceous rocks are overlain by Eocene-age sedimentary rocks in the southern part of the area.

Tertiary — Tertiary-age sedimentary rocks are present in the southern part of the area, with the highest occurrence being in the southernmost part of the study area. These rocks consist of sandstones, siltstones, and mudstones that were deposited in a shallow marine environment. The sedimentary rocks are characterized by their fine-grained texture and contain fossils such as bivalves, brachiopods, and ammonites. The Tertiary rocks are overlain by Quaternary-age sedimentary rocks in the southernmost part of the area.

Explanation

Geologic map of the area showing the distribution of different rock types and geologic units. The map includes a legend with symbols for different rock types, geologic units, and locations. The map is based on field observations and is intended to provide a general overview of the geology of the area.

References


Wichita Falls Quadrangle — The Wichita Falls Quadrangle is a 1:24,000-scale quadrangle map of the Wichita Falls area. It includes a geologic map, a geologic cross-section, and a geologic section. The map is based on field observations and is intended to provide a general overview of the geology of the area.

References

