Introduction

This geologic map of the Scotland Quadrangle, Van Buren County, Arkansas, was prepared by Richard S. Hurto and Daniel S. Raines in 2011. The map provides a detailed view of the geological features and rock units in the area. The map is useful for understanding the geologic history and the potential for resources such as water and minerals. The map is oriented with north at the top, and the scale is 1 inch = 2000 feet, with a vertical exaggeration of 20%.

Correlation of Map Units

- **Qtr**: Quaternary
- **Pn**: Pennsylvanian
- **M`:** Mississippian
- **Nor**: Norian
- **N`:** Namurian
- **P`:** Permian
- **Pn**: Pennsylvanian
- **Qtr**: Quaternary
- **Unconformity**: Unconformity

Stratigraphic Column

The stratigraphic column shows the sequence of geological strata present in the area. The column includes information on the age and type of each stratum, which helps in understanding the geological history of the region.

Description of Map Units

- **Mississippian**: This unit is characterized by shale, sandstone, and limestone. The beds are often interbedded and show a variety of sedimentary structures.
- **Pennsylvanian**: This unit includes coal and shale, with layers of sandstone and limestone. The coal beds are significant for energy resources.
- **Permian**: This unit is composed of sandstone, shale, and limestone. The strata show evidence of tectonic activity and sedimentation.
- **Quaternary**: This unit represents the youngest geological period and includes deposits such as alluvium,冲积物, and glacial till.

Symbols

- **Contact**: A boundary between two rock units.
- **Line of cross-section**: A line where a cross-section of the geological features is made.

References