

DESCRIPTION OF MAP UNITS

Q4 FLOODPLAIN ALLUVIUM (QUATERNARY)—shallow deposits that are particularly flooded in the tertiary in age.

Q3 TERRACE ALLUVIUM (QUATERNARY)—shallow deposits that are particularly flooded in the tertiary in age.

Q2 TERRACE ALLUVIUM (QUATERNARY)—shallow deposits that are particularly flooded in the tertiary in age.

Q1 TERRACE ALLUVIUM (QUATERNARY)—shallow deposits that are particularly flooded in the tertiary in age.

P4 KAIBAB FORMATION (LOWER PERMIAN)—gray to red sandstone and shale, with thin beds of fossiliferous sandstone and shale.

P3 TRINIDAD FORMATION (LOWER PERMIAN)—red to purple sandstone and shale, with thin beds of fossiliferous sandstone and shale.

P2 TRINIDAD FORMATION (LOWER PERMIAN)—red to purple sandstone and shale, with thin beds of fossiliferous sandstone and shale.

P1 TRINIDAD FORMATION (LOWER PERMIAN)—red to purple sandstone and shale, with thin beds of fossiliferous sandstone and shale.

P0 TRINIDAD FORMATION (LOWER PERMIAN)—red to purple sandstone and shale, with thin beds of fossiliferous sandstone and shale.

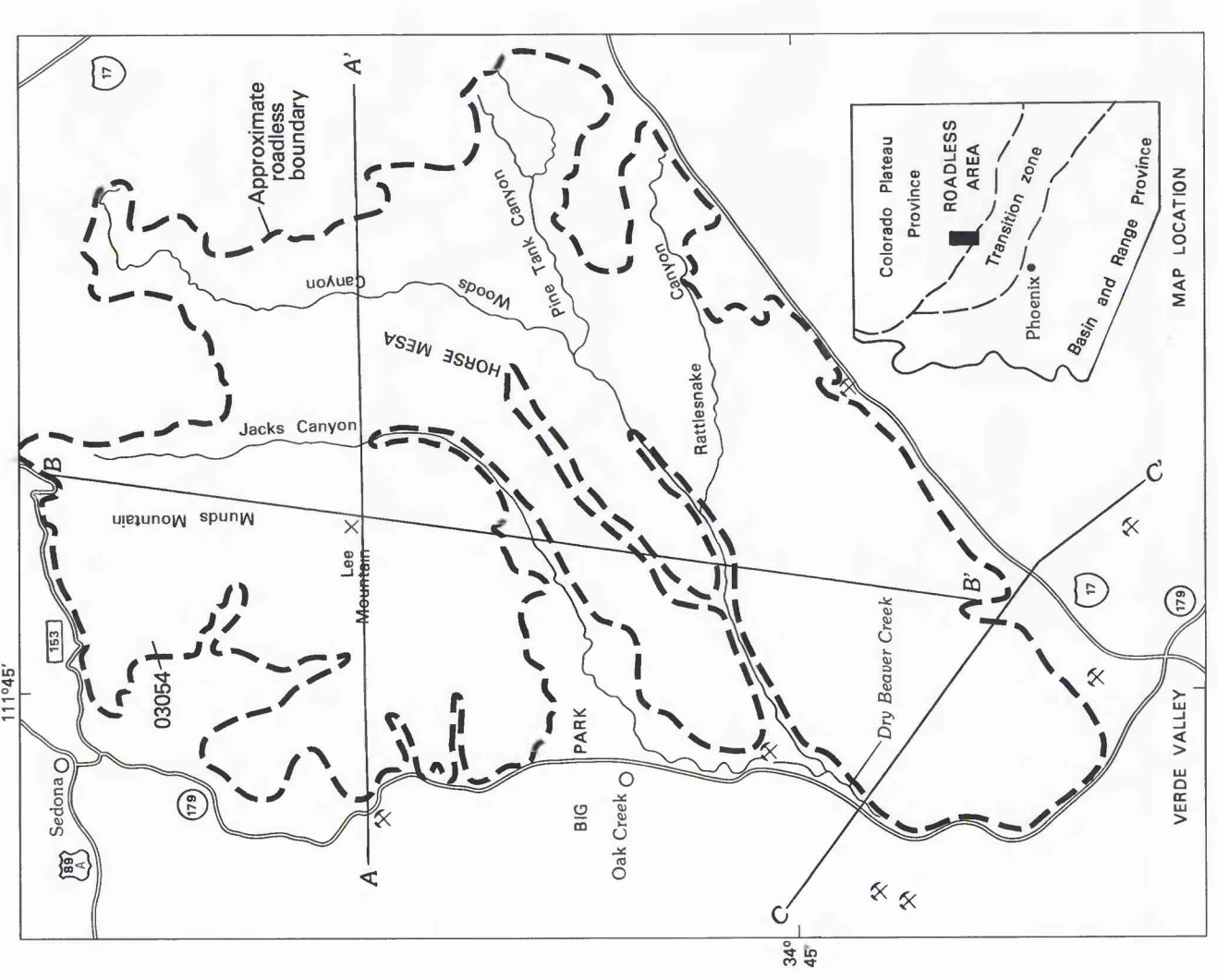


Figure 1.—Map showing location of the Rattlesnake Roadless Area (0094).

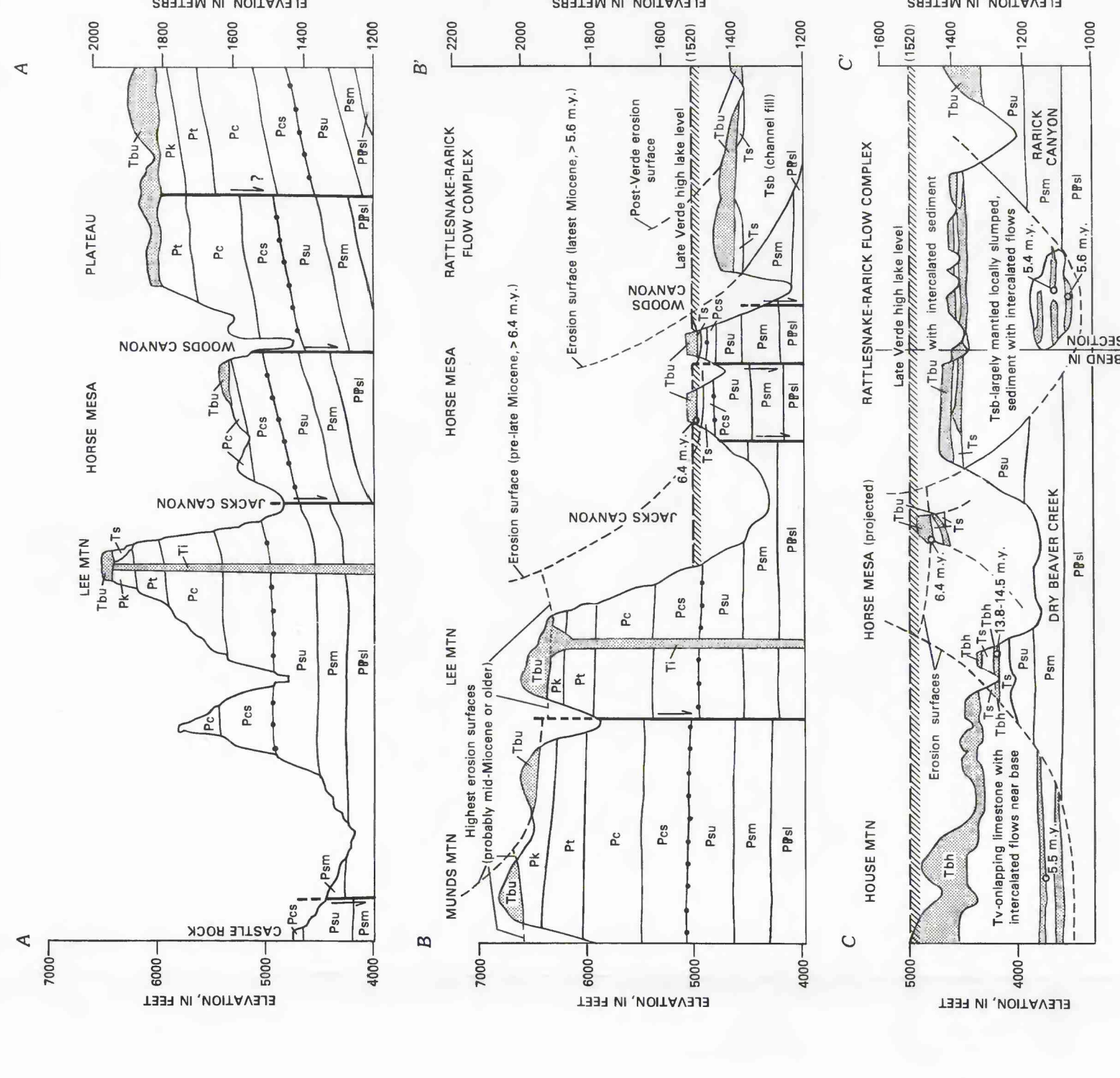


Figure 2.—Generalized sections of the Rattlesnake Roadless Area. For vertical comparison, a 600-foot section is shown in section A. The Kanab Formation is shown in section B. The Kaibab Formation is shown in section C.

STUDIES RELATED TO SETTING

The Mather Act (Public Law 86-377, September 23, 1968) authorized the U.S. Geological Survey and the U.S. Forest Service to carry out a study of the Rattlesnake Roadless Area. The study was completed in 1982 and is published in this pamphlet. The results of the study are summarized in this pamphlet.

Geographic setting

The Rattlesnake Roadless Area is located in the northern part of the Grand Canyon region in Coconino and Yavapai Counties, Arizona. It is bounded by the Grand Canyon to the west and the Rattlesnake Mountains to the east. The area is characterized by its rugged topography and diverse geology.

Geologic setting

The geologic setting of the Rattlesnake Roadless Area is complex, involving multiple geological periods and processes. The area is primarily composed of Permian and Triassic rocks, with younger Quaternary alluvium and terraces. The geology is characterized by its intricate folding and faulting.

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ASSESSMENT OF MINERAL RESOURCE POTENTIAL

The mineral resource potential of the Rattlesnake Roadless Area is assessed based on geological and geophysical data. The area is considered to have a high potential for mineral resources, particularly in the form of coal, oil, and natural gas. The assessment is based on the geological setting and the distribution of mineral resources.

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REFERENCES

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MINERAL RESOURCE POTENTIAL AND GEOLOGIC MAP OF THE RATTLESNAKE ROADLESS AREA, COCONINO AND YAVAPAI COUNTIES, ARIZONA

By
Thor N. V. Karlstrom and George H. Billingsley, U.S. Geological Survey
and
Robert McColly, U.S. Bureau of Mines

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