AREAL GEOLOGY OF THE DATE QUADRANGLE
By Robert E. Curtis

INTRODUCTION
The quadrangle was mapped in August, 1950, as a part of the State Geologic Survey's Colorado Accessory Project. Gamma ray data were also used in this project and the data are in the possession of the State Geologic Survey. The quadrangle was prepared for publication in 1955, with the data compiled and analyzed by the U.S. Geological Survey and the Colorado Geological Survey.

LOCATION
The quadrangle lies in the Karns Quadrangle, south of the city of Denver, Colorado. The quadrangle is bounded by the S. Platte River on the west, the Rocky Mountains on the east, the Golden City Quadrangle on the north, and the Denver Quadrangle on the south.

TEMPERATURE AND VELOCITIES
The average annual temperature is 50°F, and the average annual rainfall is 15 inches. The average annual snowfall is 20 inches. The average annual wind velocity is 10 mph. The average annual humidity is 40%.

MINERALOGY AND PETROLOGY
The quadrangle is characterized by the presence of the Colorado Sandstone, a well-preserved sandstone, and the Laramie Formation, a well-preserved limestone. The Colorado Sandstone is a coarse-grained sandstone, and the Laramie Formation is a fine-grained limestone.

TOPOGRAPHY
The quadrangle is characterized by the presence of the Colorado Plateau, a high plateau, and the Rocky Mountains, a range of mountains.

GEOLoGy
The quadrangle is characterized by the presence of the Colorado Plateau, a high plateau, and the Rocky Mountains, a range of mountains. The Colorado Plateau is characterized by the presence of the Colorado River, a river, and the Laramie Formation, a well-preserved limestone.

COAL
Coal is present in the quadrangle. The coal is characterized by the presence of the Colorado River, a river, and the Laramie Formation, a well-preserved limestone.

SAND AND GRAVEL
Sand and gravel are present in the quadrangle. The sand and gravel are characterized by the presence of the Colorado Plateau, a high plateau, and the Rocky Mountains, a range of mountains.

CLAY AND PEGOLOID
Clay and pegooid are present in the quadrangle. The clay and pegooid are characterized by the presence of the Colorado Plateau, a high plateau, and the Rocky Mountains, a range of mountains.