

EXPLANATION

Younger rocks
Shown only where they form extensive cover

Toa
Ojo Alamo Sandstone

UNCONFORMITY

Kku
Kkf
Kkl
Kirtland Shale
Kku, upper shale member
Kkf, Farmington Sandstone Member
Kkl, lower shale member

Kf
Fruitland Formation*

Kpc
Pictured Cliffs Sandstone*

Kl
Lewis Shale*

Kch
Cliff House Sandstone*

Kmf
Menefee Formation*

In the Chuska Mountains from Tondle's work and toward the Menefee Formation includes equivalents of rocks as young as Kirtland Shale. Near Tuhatchi, the Tuhatchi Formation is also mapped with the Menefee.

Ky
Yale Point Sandstone*

Kw
Wepo Formation

Kt
Toreva Formation

Kpl
Kph
Point Lookout Sandstone*
Kph, Hosta Tongue

Kcc
Crevasse Canyon Formation*

Kg
Gallup Sandstone*

Gallup Sandstone* Dileo Coal Member equivalent, and stray sandstone of Sears, Hunt, and Hendricks (1941)

Kms
Kmm
Kmn
Kmi
Mancos Shale*

South of San Juan River the Mancos Shale (Kms) is divided into upper (Kmm) and lower (Kmi) parts by units of the Mesaverde Group. South of Tondle's the upper part intertongues with units of the Crevasse Canyon Formation to form the Salton Tongue (Kms) and Mulatto Tongue (Kmm). On Black Mesa the Mancos Shale (Kms) is not divided.

Kd
Dakota Sandstone
Only of Late Cretaceous age on Black Mesa

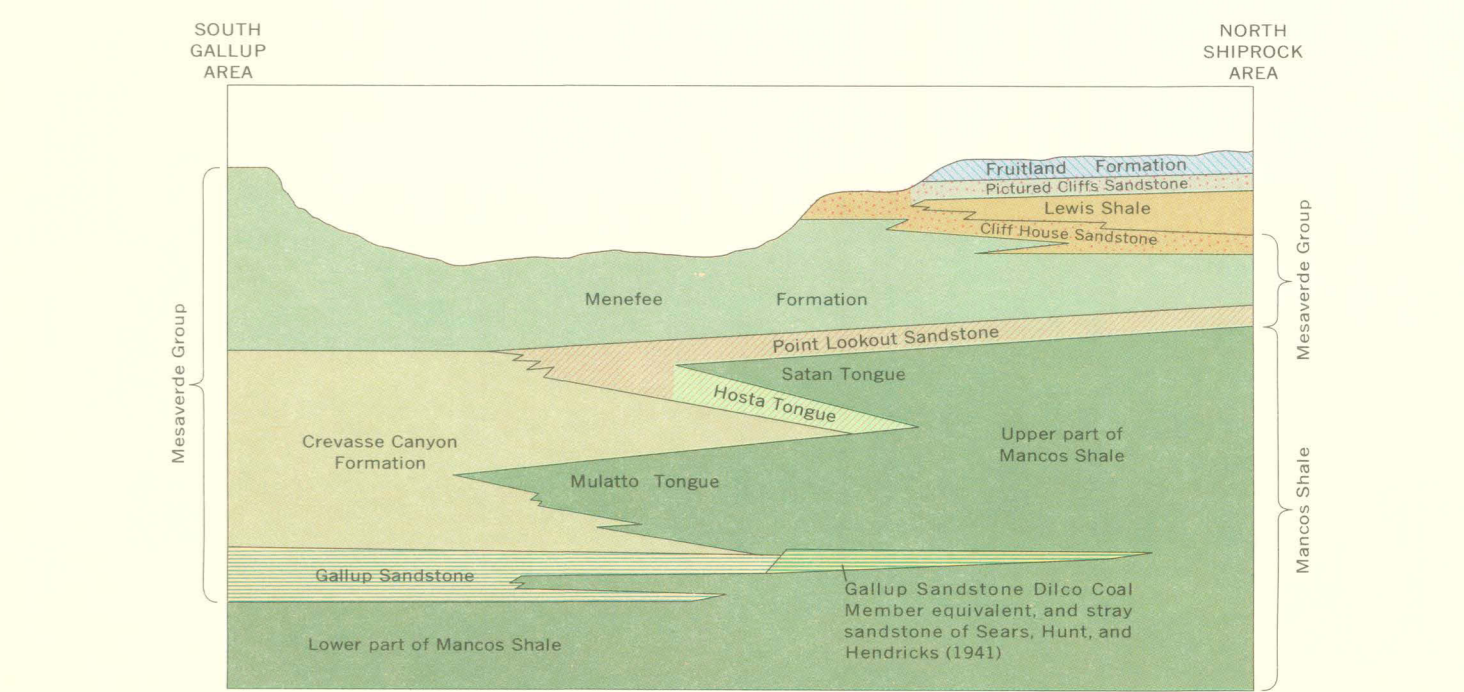
Kdb
Dakota Sandstone and Durro Canyon Formation

Jo
Jurassic and older rocks

Contact

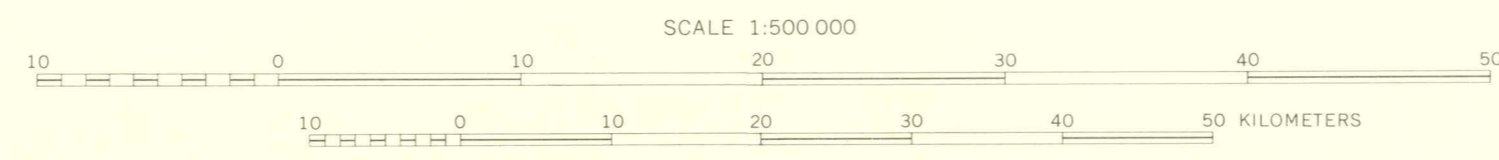
Fault

Coal mine



SOURCES OF GEOLOGIC DATA
Navajo Indian Reservation and adjacent areas from:
Cooley, Harshbarger, Akers, and Hardt (1969);
Hayes and Zapp (1955)
Area south of Gallup from: Dane and Bachman (1957b)
Area of southwest Colorado from: Vogel (1962)

GENERALIZED GEOLOGIC MAP OF THE CRETACEOUS AND SOME RELATED ROCKS, NAVAJO AND HOPI INDIAN RESERVATIONS AND ADJACENT AREAS OF ARIZONA, NEW MEXICO, UTAH, AND COLORADO



Base from U.S. Geological Survey, State base maps
Arizona, Colorado, New Mexico, and Utah