CANJILON QUAD

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY, BUREAU OF MINES AND MINERAL RESOURCES DIVISION

BULLETIN 75 PLATE 2

GEOLOGY OF CANJILON QUADRANGLE

Base map from U.S. Geological Survey Canjilon Quadrangle

Geology by Clay T. Smith, A.J. Budding, Charles W. Pitrat, and others.

Scale 1/24000

0.5 0 1 Mile

EXPLANATION

QUATERNARY

Qal — Alluvium
Stream deposits and recent terrace gravels

Qd — Landslide debris
In part incised by recent drainage

Qg — Terrace gravel
Local terraces and extensive sheets of coarse gravel deposits, not related to present drainage pattern

TERTIARY

Not exposed in this quadrangle
Sierra Negra Basalt Member of the Hinsdale Formation
Dikes and flows of olivine basalt

Not exposed in this quadrangle
Abiquiu Tuff Los Pinos Formation
Ta; *Tuffaceous sandstone and siltstone*
Tp; *Tuffaceous sandstone and siltstone with interbedded volcanic boulder conglomerate*

Not exposed in this quadrangle
El Rito Formation
Coarse sandstone and conglomerate with Precambrian rock fragments

CRETACEOUS

Kmu — Carlile and Niobrara(?) Members of the Mancos Formation
Gray, thin-bedded shale with local concretionary zones

Kmg — Greenhorn Member of the Mancos Formation
White-weathering, slabby limestone interbedded with gray calcareous shale

Kml — Graneros Member of the Mancos Formation
Light-gray to dark-gray calcareous shale, somewhat concretionary, with thin sandstone beds and brownish arenaceous zones

Kd — Dakota(?) Formation
Massive, coarse-grained crossbedded sandstone with local interbedded shale and coal layers; may contain equivalents of Purgatoire and Burro Canyon Formations in lower part

JURASSIC

Jmb — Brushy Basin Shale Member of Morrison Formation
Variegated gray, green, and red mudstone with thin sandstone and conglomerate lenses

Jml — Lower member of Morrison Formation
Alternating thin-bedded sandstone, siltstone and mudstone, weathering gray to chocolate brown

Jt — Todilto Formation
Thin-bedded, fetid, gray limestone with thin shale partings, overlain locally by massive white gypsum

Je — Entrada Formation
Massive, crossbedded, fine-grained sandstone

TRIASSIC

Trcu — Upper shale member of Chinle Formation
Interbedded variegated red, chocolate brown, and purple mudstone, siltstone, and lenticular sandstone

Not exposed in this quadrangle
Lower sandstone member of Chinle Formation
Coarse-grained, conglomeratic, lenticular sandstone interbedded with siltstone and mudstone; probably contains correlatives of the Agua Zarca, Salitral, and Poleo Members of the Chinle Formation

PERMIAN

Not exposed in this quadrangle
Cutler Formation
Alternating red-purple crossbedded arkosic sandstone and purple-orange mudstone

PENNSYLVANIAN

Not exposed in this quadrangle
Pennsylvanian undifferentiated
Thin-bedded, carbonaceous siltstone of probable Desmoinesian Age

Contact — *Dashed where approximately located; dotted where concealed*

Fault, showing dip — *Dashed where approximately located*

Strike and dip of beds

Mine (abandoned)

Well