

SYMBOLS

- Geologic contact, dashed where approximately located
- High-angle fault presumed to be normal or strike slip, showing trace and direction of plunging; dashed where anticlinal or synclinal direction of plunging; dotted where concealed; ball on apparent downthrown side; arrow shows direction of dip; showing inferred component of lateral slip
- High-angle thrust fault: dashed where uncertain; dotted where concealed
- Overthrust fault: dashed where uncertain; dotted where concealed
- Trace of axial surface of anticline, showing plunge
- Trace of axial surface of syncline, showing plunge
- Strike and dip of beds
- Strike and dip of overturned beds
- Strike and dip of foliation
- Horizontal beds
- Oil-test hole, dry
- Prospect
- Wind direction on eolian blankets
- Direction of distributary flow on alluvial fans

EXPLANATION

- Qc Qfo
- Alluvium
- Qa: Arroyos, Qa: Fans
- Qf
- Alluvium
- Floodplains
- Ql
- Landslide
- Qe Qed
- Eolian sand
- Q: Blankets, Qd: Dunes
- Qr
- Gravel terraces
- Qc
- Caliche
- Qp
- Gravel pediments
- Qo
- Ortiz pediment gravel and surface
- Fanglomerate ranging from large boulders to pebbles
- Ts Tsc
- Ts
- Tz

Santa Fe Formation
 Ts: Undivided; pinkish, light-olive-drab and white sandstone, gray and brown mudstone; arkose conglomerate, and fanglomerate. Tsc: Coja Member, "Upper buff" of Bryan and McCann; grayish sand and pebbly conglomerate. Taz: Zia member; "Lower gray" of Bryan and McCann; white sandstone with some reddish and greenish mudstones and gravel

Popotasa Formation
 Volcanic and granitic fanglomerate, mudstone, sandstone, and local andesitic flows; southern part of basin only

Espinazo Formation
 Volcanic fanglomerate with local lacustrine flows and tuff; northern basin only (includes also volcanics of Bland Canyon)

Datil Formation
 Volcanic fanglomerate and tuff; southern part of basin

Baca Formation
 Nonvolcanic conglomerate; southern part of basin only

Galisteo Formation
 Variegated sandstone, mudstone, and conglomerate; northern part of basin only

Mesaverde and Mancos Formations
 K: Undivided; Kms: Mesaverde Formation; Km: Mancos formation; sandstone, shale, and coal; includes Dakota Formation at base of Mancos

Morrison, Entrada, and Todilto Formations
 Sandstone, mudstone, gypsum, and limestone

Santa Rosa and Chinle Formations
 Reddish-brown mudstone, sandstone, and conglomerate

San Andres, Yeso, and Abo Formations
 P: Undivided; Ps: San Andres Formation; Py: Yeso Formation; Pa: Abo Formation; reddish to white sandstone, mudstone and gypsum

Madera and Sandia Formations
 Marine limestone, shale, and sandstone with local conglomerate; includes thin Mississippian locally at base

CENOZOIC IGNEOUS ROCKS

Basalt flows of Albuquerque and Cat Hills fields
 Vesicular olivine basalt flows and cinder

Bandelier Tuff
 Buff to white rhyolite tuff and breccia

Rhyolite
 Tbr: Bearhead Rhyolite of Jemez area; flows, tuffs, and intrusions. Tbp: Peralta Tuff Member of Bearhead Rhyolite

Paliza Canyon Formation of Jemez area
 Tpb: Intermediate to basaltic flows, tuffs, and breccias; also includes underlying basalt flow of Chanis Mesa. Tpa: Andesites

Canovas Canyon Rhyolite of Jemez area
 Flows, tuffs, and intrusions

Basaltic flows and cinders of San Felipe, Carros del Rio, Wind Mesa, Lucero Mesa, Cat Mesa, Isleta and lesser centers
 Tc: Undivided. Tbc: Cone. Tbt: Tuff

Andesite flows and intrusions of Los Lunas, Tome, and Black Butte

Shallow dikes and sills
 Td: Undivided. Tdb: Basalt. Tdl: Lacte. Tdr: Rhyolite

PRECAMBRIAN ROCKS
 pE: Undivided; granite, gneiss, schist, quartzite, and greenstone. pG: Granitic plutons. pM: Metamorphic rocks; gneiss, schist, quartzite, and greenstone



APPROXIMATE MEAN DECLINATION, 1975

GEOLOGY OF ALBUQUERQUE BASIN

by Vincent C. Kelley, 1977

