

EXPLANATION

Hot Springs deposit
Calcareous deposit found only at Foywood Hot Springs

Qal Alluvium
Bolson deposits and alluvium formed by present-day streams. Includes sands, clays, and conglomerate.

Q1g Terrace and pediment gravels
Q1g 2 high level gravels
Q1g 1 low level gravels
Q1g terrace gravels, undifferentiated

Tsf 2-Tsf 4
Santa Fe fanglomerates
Tsf-fanglomerates, conglomerates and sandstones mostly consolidated.
Tsf-minor iddingsite andesite flows and gneiss interbedded with Santa Fe fanglomerates

Tswf Swartz rhyolite
Tswf-parphyritic rhyolite flows, tuffs, and flow breccias
Tswi-intrusive domes and dikes of porphyritic rhyolite

Tbs Bear Springs basalt
Olivine basalt and olivine andesite flows, tuffs and flow breccias.

Tr Razorback formation
Upper member-black aphanitic rhyolite flows with spherulitic, perlitic and brecciated zones, minor tuffs.
Lower member-black, fine-grained iddingsite andesite flows and flow breccias containing quartz and oligoclase inclusions

Tr Pollock rhyolite
Rhyolite porphyry and vitrophyre flows. Exact stratigraphic position unknown.

Trp Piloncillo sediments
Fanglomerates, conglomerates, tuffs and sandstones. Equivalent in age to volcanic sequence from Box Canyon rhyolite through Razorback rhyolite.

Tcb Caballo Blanco rhyolite
Massive, white, pumiceous, porphyritic rhyolite. Groundmass consists partly of elongated, welded shards, partly of dehydrated fibrous areas. Interpreted as an ignimbrite.

Tru Rustler Canyon basalt
Basalt or olivine andesite flows and flow breccias.

Tbc Box Canyon rhyolite
Massive, cream, porphyritic rhyolite with groundmass of welded, deformed shards. Interpreted as an ignimbrite.

Tmp Mimbres Peak rhyolite
Tmpt-banded, pink and gray, fine-grained rhyolite flows, dome like intrusive bodies and minor dikes
Tmpti-bedded pumiceous rhyolite tuff
Tmptp-bedded red and cream tuffs, locally grading into perlitic glass zones

Twe White Eagle rhyolite
Porphyritic rhyolite flows, tuffs and dikes. Confined to the northern part of Cooks Range. Stratigraphic position unknown, but possibly equivalent to Mimbres Peak rhyolite.

Tf Foywood rhyolite
Fine-grained rhyolite in dome like intrusive bodies and minor flows. Stratigraphic position unknown but possibly equivalent to Mimbres Peak formation

Tkn Kneeling Nun rhyolite
Massive purplish-gray, porphyritic rhyolite with spherulitic groundmass. Interpreted as an ignimbrite.

Tsp Sugarlump rhyolite and latite
Tst-bedded tuffs, sandy and conglomeratic tuffs. Mostly white, pink, cream or green. Latitic or rhyolitic at the base, rhyolitic near the top.
Tsp-massive tuffs. Mainly vitric crystal tuffs, some with welded shards in the groundmass. Interpreted as ignimbrites. Interbedded with bedded tuffs.

Trp Rubio Peak andesite and latite
Purple, brown, gray and green flows, flow breccia, agglomerate and tuffs. Interfingers with Sugarlump rhyolite (Tst) near Mimbres Peak

Tv Visto monzonite or granodiorite
Altered gray-green granodiorite or monzonite intrusive in northern Cooks Range.

Tgp Granodiorite porphyry
Gray-green granodiorite porphyry with andesine and hornblende phenocrysts. Forms a stock or laccolith in southern Cooks Range.

Ks Sarten-Beartooth quartzite
Gray quartzite with hematite stains, sandstone and minor limestones.

Pl Lobo-Abra redbeds
Sandstone, conglomerate and shale, largely red

Mm Magdalena limestone
Limestone, becoming silty toward the top.

Miv Lake Valley limestone
Gray limestones, largely silty, shaly, cherty, or bohermal

Dp Percha shale
Gray shale with calcareous nodules (Box member) on top, black fissile shale (Reedy Pay member) at the base.

Sf Fusselman limestone
Gray limestone and dolomite, locally fractured, silicified, and mineralized.

Oe El Poso group
Bluish-gray dolomites and limestones, commonly with sandy partings between beds.

Cb Bliss quartzite
Hematitic quartzite and sandstone, greenish, glauconitic sandy shale and minor red conglomerate

pCs-greenstone schist
pCg-granite gneiss and granite pegmatite

DIKES

Tds Minor silicic dikes
Tdi Minor intermediate dikes
Tdb Minor basic dikes

CRETACEOUS
PERMIAN
PENNSYLVANIAN
MISSISSIPPIAN
DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN
PRECAMBRIAN

QUATERNARY
TERTIARY
TERTIARY ?

Contact
Dashed where inferred

Fault
Dashed where inferred
U-Upthrown side
D-Downthrown side

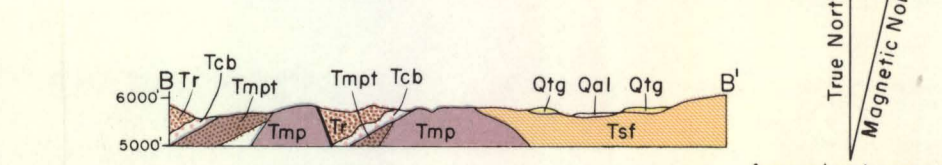
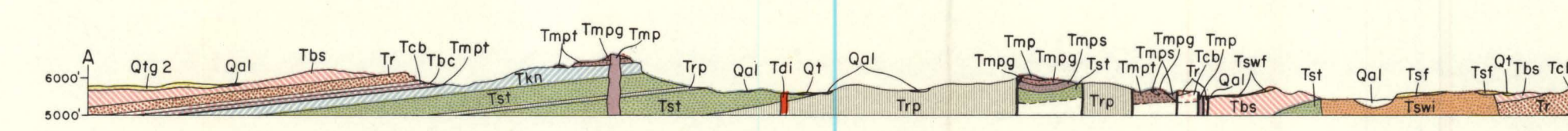
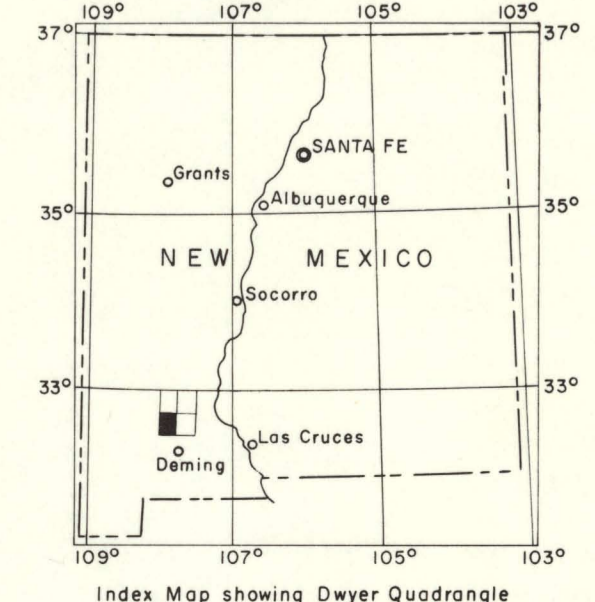
Intermittent stream
Approximate mean declination 1950

Strike and dip of beds

Mining area

Base map from U.S. Soil Conservation Service sheet 413

Geology by W.E. Elston, Columbia University. Surveyed 1950-1952 as part of the Field Assistance Fellowship program



GEOLOGIC MAP AND SECTIONS OF DWYER QUADRANGLE, NEW MEXICO

