

CORRELATION OF MAP UNITS

Qa	Holocene	QUATERNARY
To	Pliocene	
Unconformity		TERTIARY
Ti	Oligocene or Eocene	
Unconformity		CRETACEOUS
Km	Upper Cretaceous	
Kd	Lower Cretaceous	
Unconformity		TRIASSIC
Tc	Upper Triassic	
Disconformity		PERMIAN
Pa	Upper Permian	
Disconformity		Lower Permian
Psg		

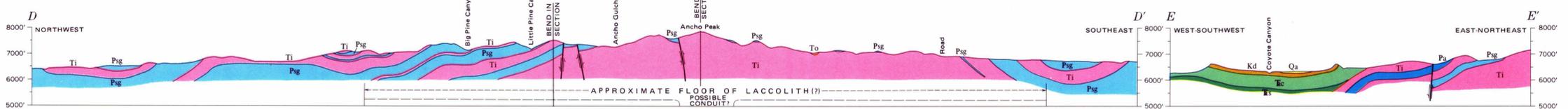
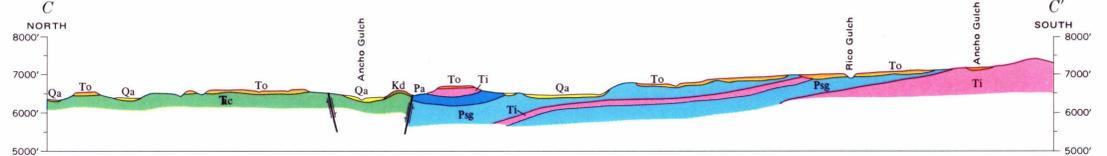
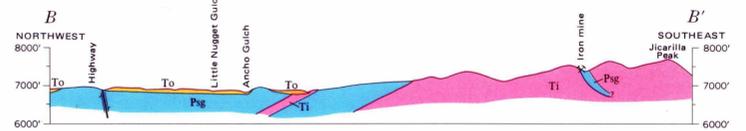
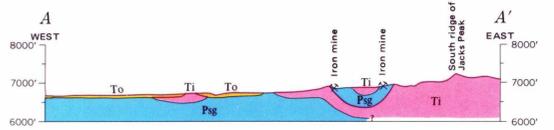
DESCRIPTION OF MAP UNITS

- Qa ALLUVIUM (HOLOCENE)
- To OGALLALA(?) FORMATION (PLIOCENE) – Torrential stream and mudflow deposits; locally auriferous
- Tdi BASIC DIKE ROCK (OLIGOCENE OR EOCENE)
- Ti INTRUSIVE ROCKS (OLIGOCENE OR EOCENE) – Mainly of intermediate composition; commonly porphyritic
- Km MANCOS SHALE (UPPER CRETACEOUS) – Gray shale
- Kd DAKOTA SANDSTONE (LOWER CRETACEOUS) – White to buff sandstone containing interbeds of shale and siltstone near top
- Tc CHINLE FORMATION (UPPER TRIASSIC) – Chiefly purplish-red to brown sandstone
- Ts SANTA ROSA SANDSTONE (UPPER TRIASSIC) – Reddish-brown to white calcareous sandstone and siltstone
- Pa ARTESIA FORMATION (UPPER AND LOWER PERMIAN) – Light-brown to orange-red calcareous sandstone and siltstone
- Psg SAN ANDRES LIMESTONE AND GLORIETA(?) SANDSTONE (LOWER PERMIAN) – White gypsum, gray limestone, and white to light-brown sandstone. Quartzite and calc-silicate rocks occur near intrusive contacts

- CONTACT – Dashed where inferred
- FAULT – Showing dip of fault plane. Dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side
- FOLDS – Showing direction of plunge of axis. Dashed where approximately located; dotted where concealed
- Anticline
- Syncline
- STRIKE AND DIP OF BEDS
 - Inclined
 - Vertical
 - Horizontal
- STRIKE AND DIP OF JOINTS
 - Inclined
 - Vertical
- PROSPECTS AND MINES – Showing metal sought
 - Gold placer and pit
 - Adit
 - Shaft
 - Bedrock prospect
- SAMPLE LOCALITY AND NUMBER
- LINE OF SAMPLE TRAVERSE

Planimetric base traced from orthophoto map, 1970, by U.S. Geological Survey. Altimetry by Kenneth Segerstrom, 1970. Altimetry base is a benchmark on the railroad at Ancho, N. Mex., 4 miles northwest of mapped area. All drainage is ephemeral

Geology by Kenneth Segerstrom, 1970, and G. E. Ryberg, 1964-66; assisted by H. N. Harrison, III, and Larry Segerstrom



GEOLOGIC MAP AND SECTIONS OF THE JICARILLA MOUNTAINS, LINCOLN COUNTY, NEW MEXICO