# GEOLOGIC MAP OF THE SIERRA COUNTY REGION, NEW MEXICO

Compiled by Vincent C. Kelley
1955

## EXPLANATION

### SEDIMENTARY ROCKS

**QUATERNARY – TERTIARY**

- **Qa** — Undifferentiated alluvium, caliche, spring deposits, sand dunes, and landslides. Includes some Santa Fe beds locally.
- **Tsf** — Santa Fe group, including locally some pediment alluvium, middle Tertiary volcanic sediments, and Pliocene and Pleistocene Palomas gravel.

**CRETACEOUS**

- **TKm** — McRae formation (dominantly sandstone and purple claystone)
- **Kmv** — Mesaverde formation (dominantly sandstone and gray shale)
- **Kd K** — Dakota and Marcos formations (dominantly sandstone and black shale) Cretaceous formations undivided (dominantly conglomerate and gray shale)

**PERMIAN**

- **Ps** — San Andres formation (dominantly dark gray dolomite)
- **Py** — Yeso formation (dominantly tan sandstone and gypsum)
- **Psy** — San Andres and Yeso formations

**PERMIAN**

- **Pa** — Abo formation (dominantly red-brown sandstone, siltstone, and claystone)

**PENNSYLVANIAN**

- **C** — Magdalena group with Mississippian and Devonian formations locally near the base. (dominantly limestone, Devonian section, dominantly shale)

**ORD. and SIL.**

- **O** — Bliss, El Paso, Montoya, and Fusselman formations (dominantly gray dolomite and limestone)

### CRYSTALLINE ROCKS

**QUATERNARY**

- **Qb** — Basalt cones and flows, locally plugs and dikes.

**TERTIARY**

- **Ti** — Sills, dikes, stocks, and other intrusive bodies. (r, rhyolitic; m, monzonitic; and b, basaltic)
- **Tv** — Flows, flow breccia, tuff, pyroclastic material, mud flows, and volcanic alluvium. (dominantly rhyolite to andesite; includes locally intrusive masses)

**PRE-CAMBRIAN**

- **PC** — Granite, metarhyolite, gneiss, schist, quartzite, amphibolite, and greenstone.

### SYMBOLS

- Geologic boundary; dashed where uncertain, dotted where buried.
- Anticlinal bend
- Anticline
- Overturned anticline
- Synclinal bend
- Syncline
- Overturned syncline; hooked arrow shows direction of dip of overturned limb.
- Strike and dip of beds
- Strike and dip of overturned beds
- Horizontal beds
- Trend of steep foliation
- Normal fault; showing downthrown side and relative lateral displacement, dashed where uncertain, dotted where buried.
- Thrust fault, barbs on upthrust side
- Vertical beds
- Oil or gas test with total depth

SCALE 0 1 2 3 4 5 6 7 8 Miles

Base map from New Mexico Highway Department county maps.

Drafted by Diana H. Baltz

New Mexico and Sierra County

Index map of Sierra County showing outline of geologic map, dotted, and source areas, dashed.

SOURCES
1. H. P. Bushnell
2. R. H. Jahns
3. V. C. Kelley and Caswell Silver
4. Sam Thompson
5. V. C. Kelley

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