

SEDIMENTARY ROCKS

**Tr**  
Tertiary rocks  
Include Devils Hole Formation, Fortzita Conglomerate, Huerfano Formation, Cochero Formation, Poison Canyon Formation, and upper part of Raton Formation.

**KJTr**  
Cretaceous to Triassic(?) rocks  
Include lower part of Raton Formation, Vermejo Formation, Trinidad Sandstone, Pierre Shale, Niobrara Formation, Carlile Shale, Greenhorn Limestone, Graneros Shale, Dakota Sandstone, Purgatoire Formation, Morrison Formation, Bataan Creek(?) Formation, Entrada Sandstone, Johnson Gap Formation, and upper part of Lykins(?) Formation.

**PPr**  
Permian and Pennsylvanian rocks  
Include lower part of Lykins(?) Formation, Sangre de Cristo Formation, and unnamed sequence of conglomerate, sandstone, siltstone, and shale.

EXPLANATION

IGNEOUS ROCKS

EXTRUSIVE ROCKS

**Ob**  
Basalt  
Spatter cone at T. 28 S., R. 70 W.

INTRUSIVE ROCKS

**Tgr**  
Granite porphyry and microgranite  
Stocks, plus, sole injection, dikes, and sills

**Tgd**  
Granodiorite porphyry and microgranodiorite  
Stocks, dikes, and sills

**Ts**  
Syenite porphyry, microsyenite, and syenite  
Stocks, laccoliths, dikes, and sills

**Tsd**  
Syenodiorite, syenodiorite porphyry, microsyenodiorite, and syenodiorite lamprophyre  
Stocks, laccoliths, plugs, dikes, and sills

**Td**  
Diorite porphyry, microdiorite, and diorite  
Lamprophyre  
Dikes and sills

**Tsg**  
Syenogabbro porphyry, microsyenogabbro, and syenogabbro lamprophyre  
Dikes and sills

**Tle**  
Gabbro porphyry, microgabbro, basalt, and gabbro lamprophyre  
Plugs, dikes, and sills

CARBONIFEROUS

METAMORPHIC ROCKS

**Tmi**  
Metamorphic and igneous complex of quartzite, slate, hornfels, and mafic intrusive rocks

**Tkm**  
Quartzite, slate, and slightly altered sandstone

**Koh**  
Phyllite

**pCgn**  
Gneiss, schist, and pegmatite

**2 86**  
Igneous-rock sample localities  
Number designates locality described in text

**Contact**  
Dashed where inferred

**High-angle fault**  
Dashed where approximately located. Bar and ball on downthrown side

**Tear fault**  
Dashed where inferred, dotted where concealed. Arrows show relative movement

**Thrust fault**  
Dashed where inferred; dotted where concealed. Saw-tooth on overriding plate

**Anticline**  
Showing trace of axial plane and direction of plunge. Dashed where approximately located

**Syncline**  
Showing trace of axial plane and direction of plunge. Dashed where approximately located; dotted where concealed

**Overturned anticline**  
Showing trace of axial plane. Dashed where approximately located; dotted where concealed

**Overturned syncline**  
Showing trace of axial plane. Dashed where approximately located

QUATERNARY

TERTIARY

QUATERNARY

TERTIARY

CRETACEOUS

TRIASIC

PENNSYLVANIAN

PERMIAN

TRIASSIC

CRETACEOUS

TRIASIC

PENNSYLVANIAN

PERMIAN

TRIASSIC

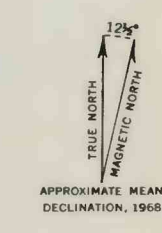
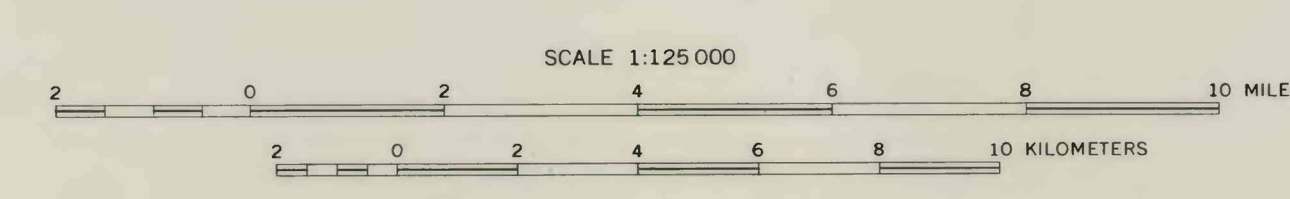
CRETACEOUS

TRIASIC

PENNSYLVANIAN

PERMIAN

GEOLOGIC MAP OF THE  
SPANISH PEAKS REGION, COLORADO



Base map compiled from Bureau of Land Management township plats and planimetric maps, 1:63 360 in 1958, prepared by the U.S. Geological Survey from aerial photographs.

Interior-Geological Survey, Washington, D.C.—1968-167147  
Details of igneous rocks mapped in 1957-62 by R. B. Johnson; other geology generalized from Johnson and others (1958)