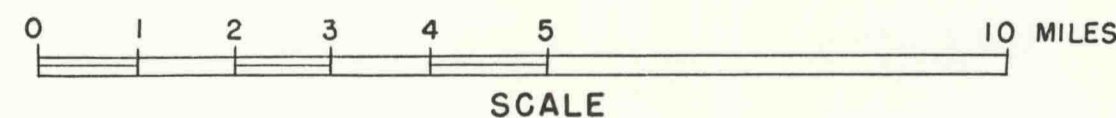


Geology by G. H. Wood, R. L. Griggs, and S. A. Northrop

Base of Geologic Map compiled from county map prepared by New Mexico State Highway Department.

GEOLOGY OF EASTERN COLFAX COUNTY, NEW MEXICO



EXPLANATION FOR GEOLOGIC MAP

|   |  |   |  |
|---|--|---|--|
| <p><b>SEDIMENTARY ROCKS</b></p> <p><i>Pleistocene and Recent</i></p> <p>Qal Alluvium (Valley fill, lake deposits, sand wash, soil mantle, gravel and loess)</p> <p>Qop Pediment deposits and surfaces (Gravels and loess occur on surfaces of several ages)</p> <p>Ql Landslides</p> <p><b>UNCONFORMITY</b></p> <p><i>Miocene(?) and Pliocene</i></p> <p>Qto Ogallala formation (Clay, sand and gravel)</p> <p><b>UNCONFORMITY</b></p> <p><i>Paleocene</i></p> <p>Tr Raton formation (Coal, shale, sandstone and conglomerate)</p> <p><b>UNCONFORMITY</b></p> <p>Kv Vermejo formation (Coal, shale and sandstone)</p> | <p><b>CRETACEOUS</b></p> <p><i>Upper Cretaceous</i></p> <p>Kt Trinidad sandstone (Light buff sandstone)</p> <p>Knp Smoky Hill Marl member of Niobrara formation and Pierre shale, undifferentiated (Shale, sandy shale, and calcareous shale)</p> <p>Kh Fort Hays limestone member of Niobrara formation (Limestone and interbedded shale)</p> <p>Kc Carlile shale (Dark gray to black shale)</p> <p>Kgh Greenhorn limestone (Limestone and interbedded shale)</p> <p>Kgr Gramercy shale (Black fissile shale)</p> | <p><b>JURASSIC</b></p> <p><i>Upper Jurassic</i></p> <p>Kd Dakota sandstone (Light buff to brown quartzitic sandstone, may include some beds of Lower Cretaceous age)</p> <p><b>DISCONFORMITY</b></p> <p>Jm Morrison formation (Green and variegated shale and buff sandstone, Todillo limestone member locally present at base of formation)</p> <p>Je Entrada sandstone (Light buff to pink sandstone)</p> <p>Trd Dockum group (Red shale, siltstone, and sandstone)</p> | <p><b>TRIASSIC</b></p> <p><i>Pleistocene and Recent</i></p> <p>Qv Intermediate felsic flows (Rhyolitic to calcic tuffs and flows intermediate in age between Qv<sub>2</sub> and Qv<sub>1</sub>)</p> <p>Qv<sub>2</sub> Early basalt flows (Flows occur on two surfaces principally in vicinity of Raton)</p> <p>Qv<sub>1</sub> Mafic dikes (Principally basalt in composition)</p> <p>Sills and dikes (Monzonitic; locally include altered sedimentary rocks)</p> <p><b>FORMATION BOUNDARY</b></p> <p>Fault (1 Downthrown side)</p> |
| <p><b>QUATERNARY</b></p>  | <p><b>CRETACEOUS</b></p>   | <p><b>JURASSIC</b></p>  | <p><b>TRIASSIC</b></p>   |
| <p><b>TERTIARY</b></p>  | <p><b>CRETACEOUS</b></p>   | <p><b>JURASSIC</b></p>  | <p><b>TRIASSIC</b></p>   |
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| <p><b>TERTIARY</b></p>  | <p><b>CRETACEOUS</b></p>   | <p><b>JURASSIC</b></p>  | <p><b>TRIASSIC</b></p>   |