



102° 41°



Lambert conformal conic projection

MESOPROTEROZOIC (1,600 -- 900 Ma)

Y1	Las Animas Formation -- Dark slate, phyllite, graywacke, and chert, and, in upper part, subordinate volcanic and carbonate rocks
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Yu	Uinta Mountain Group -- Quartzite, conglomerate, and shale
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Yun	Yv	Uncompahgre Formation and Vallecito Conglomerate -- Gray and green quartzite, slate, and phyllite, gray crossbedded conglomerate and quartzite
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Yg **Ygf** Granitic rocks of ~1.4 Ga age group -- Gray to pink, muscovite -- biotite or biotite granite and minor syenitic rocks

PALEOPROTEROZOIC (2,500 -- 1,600 Ma)

Xg	Granitic rocks of ~1.7 Ga age group -- Gray, equigranular to porphyritic, foliated to massive, granodiorite and associated intermediate rocks
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Xm Mafic rocks of ~1.7 Ga age group -- Gabbro and diorite

PALEOPROTEROZOIC GNEISS COMPLEX

Xb Biotite gneiss and migmatite -- largely metasedimentary

Xqs	Quartzite and mica schist facies of Xb unit
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Xfh Felsic and hornblendic gneisses -- largely
metavolcanic

ARCHEAN (2,500 Ma and older)

Wr	Late Archean rocks -- Metaquartzite, mica schist, amphibolite and tectonic slivers of felsic gneiss in northwest corner of state.
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 Contact, or limit of basement at surface

--- Boundary between geologic units inferred from subsurface data, including aeromagnetic data

 High-angle fault -- Solid where basement is at surface; dashed in subsurface

 Thrust fault - Sawteeth on upper plate; solid where basement is at surface; dashed in subsurface

 Precambrian ductile shear zone -- black in exposed areas; green in covered areas

- borehole to basement (after Tweto, 1987)

Volcanic field – shown only to south of Cimarron – Red Rock shear zone